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**FIG.1**  
PRIOR ART

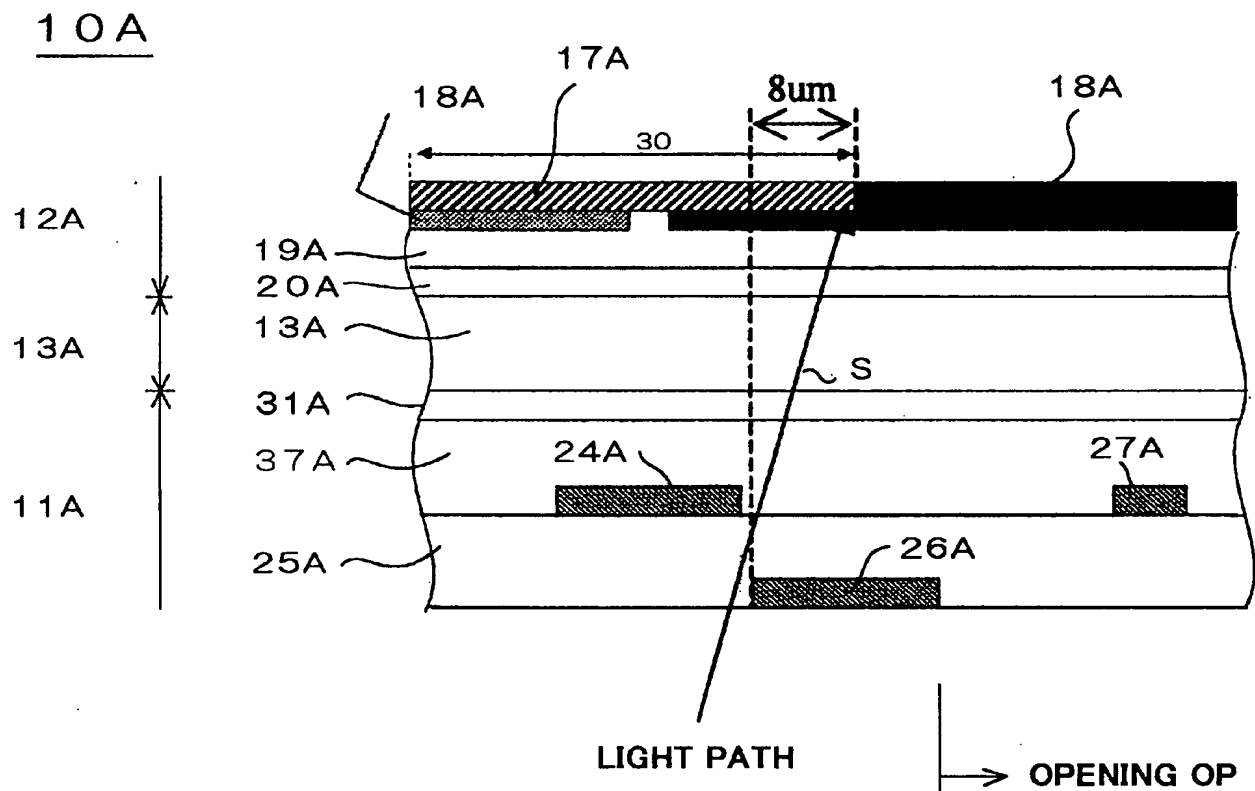


FIG.2

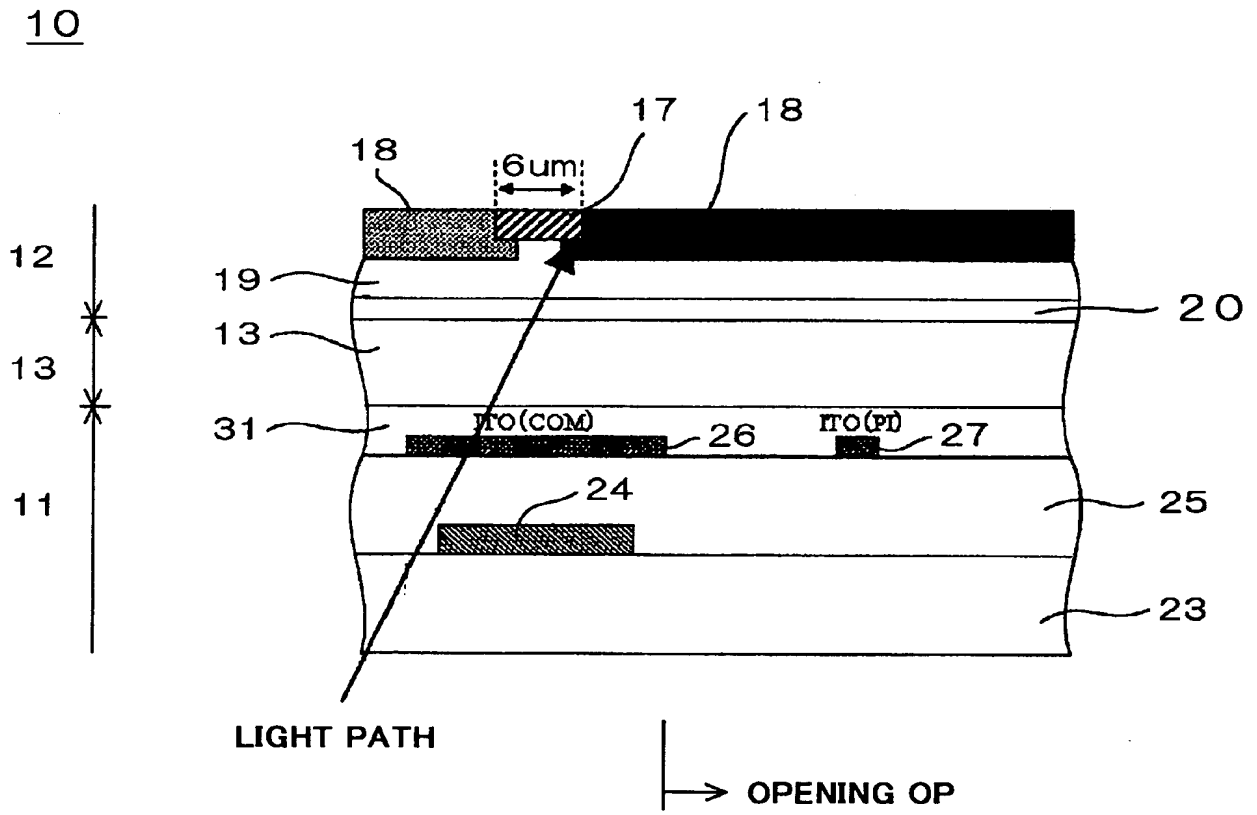
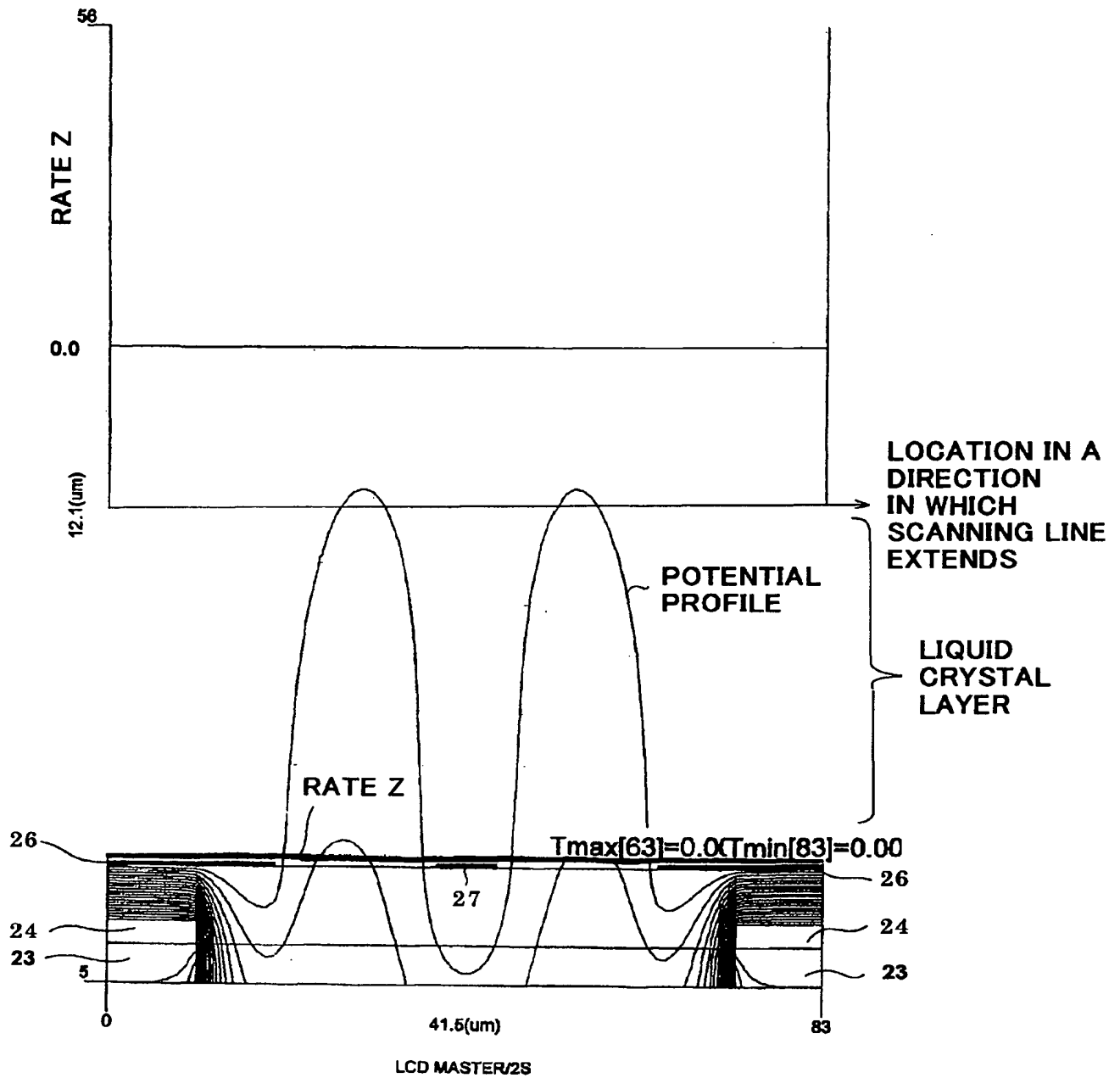
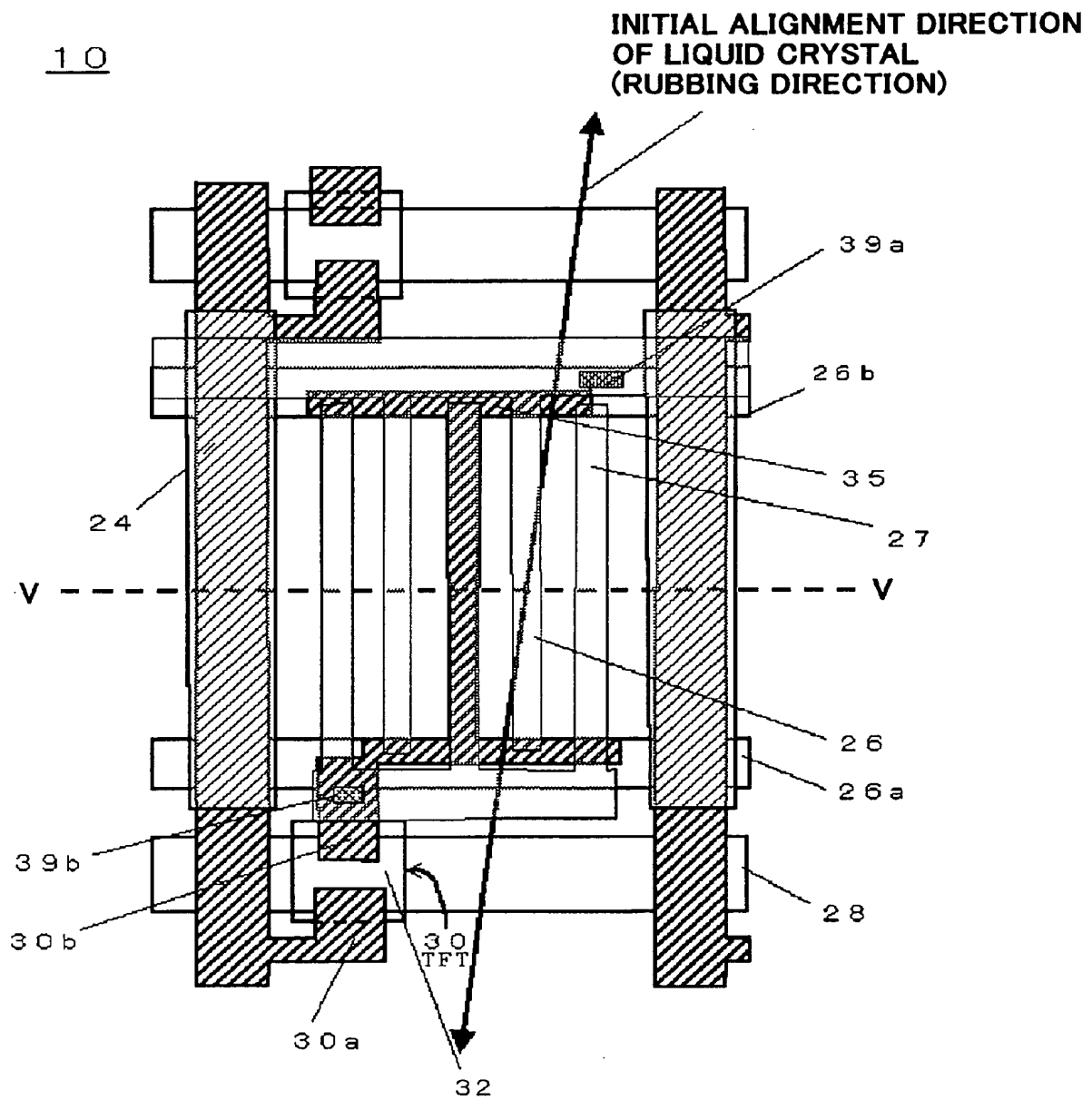


FIG. 3



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FIG.4



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FIG.5

10

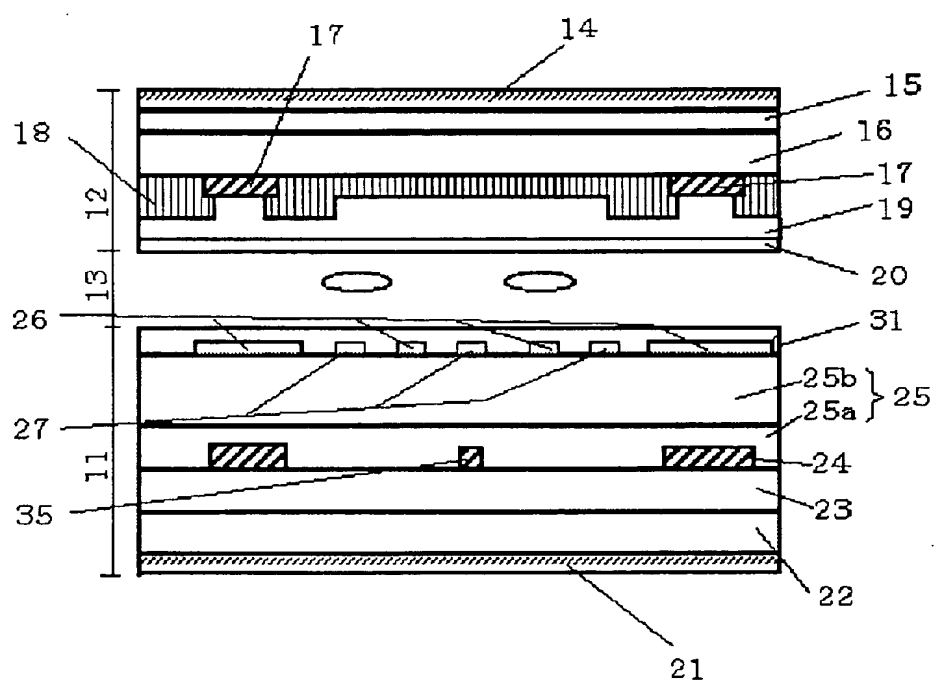


FIG. 6

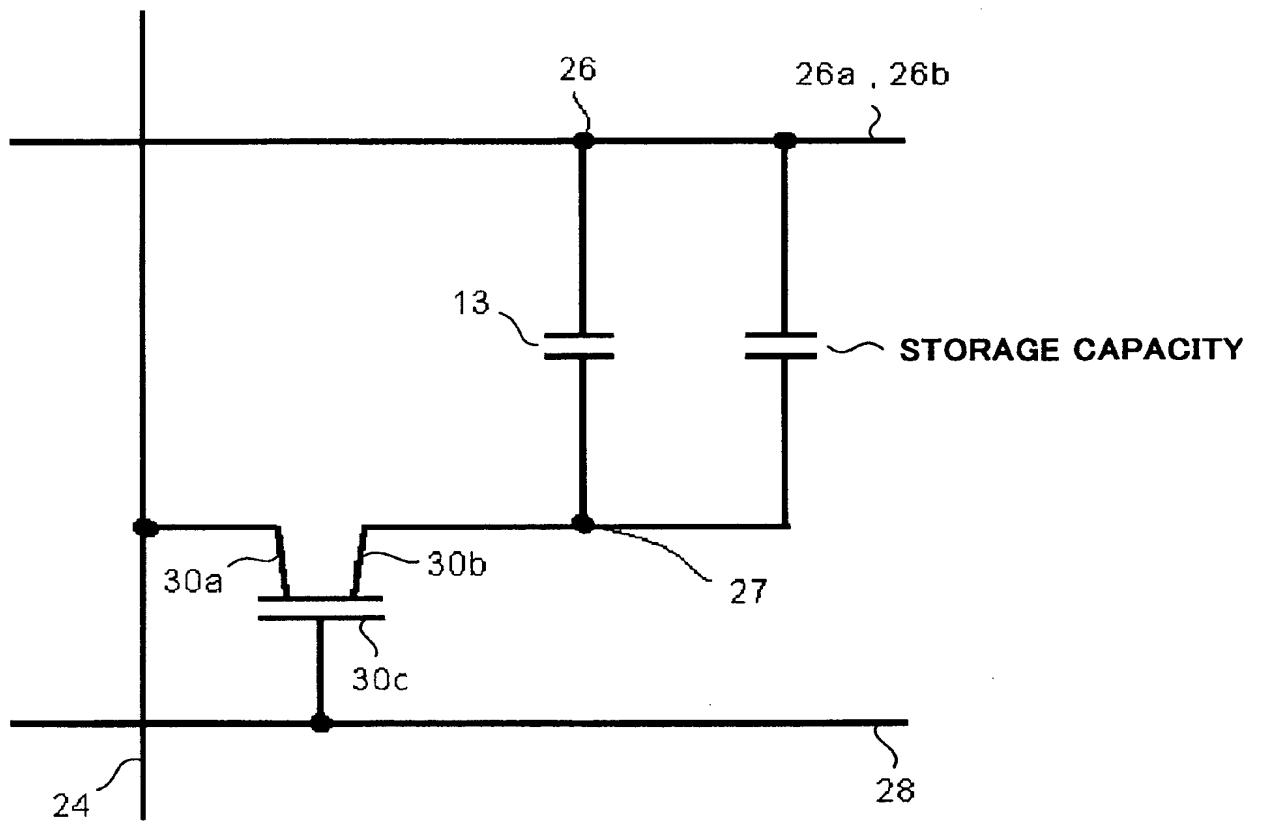
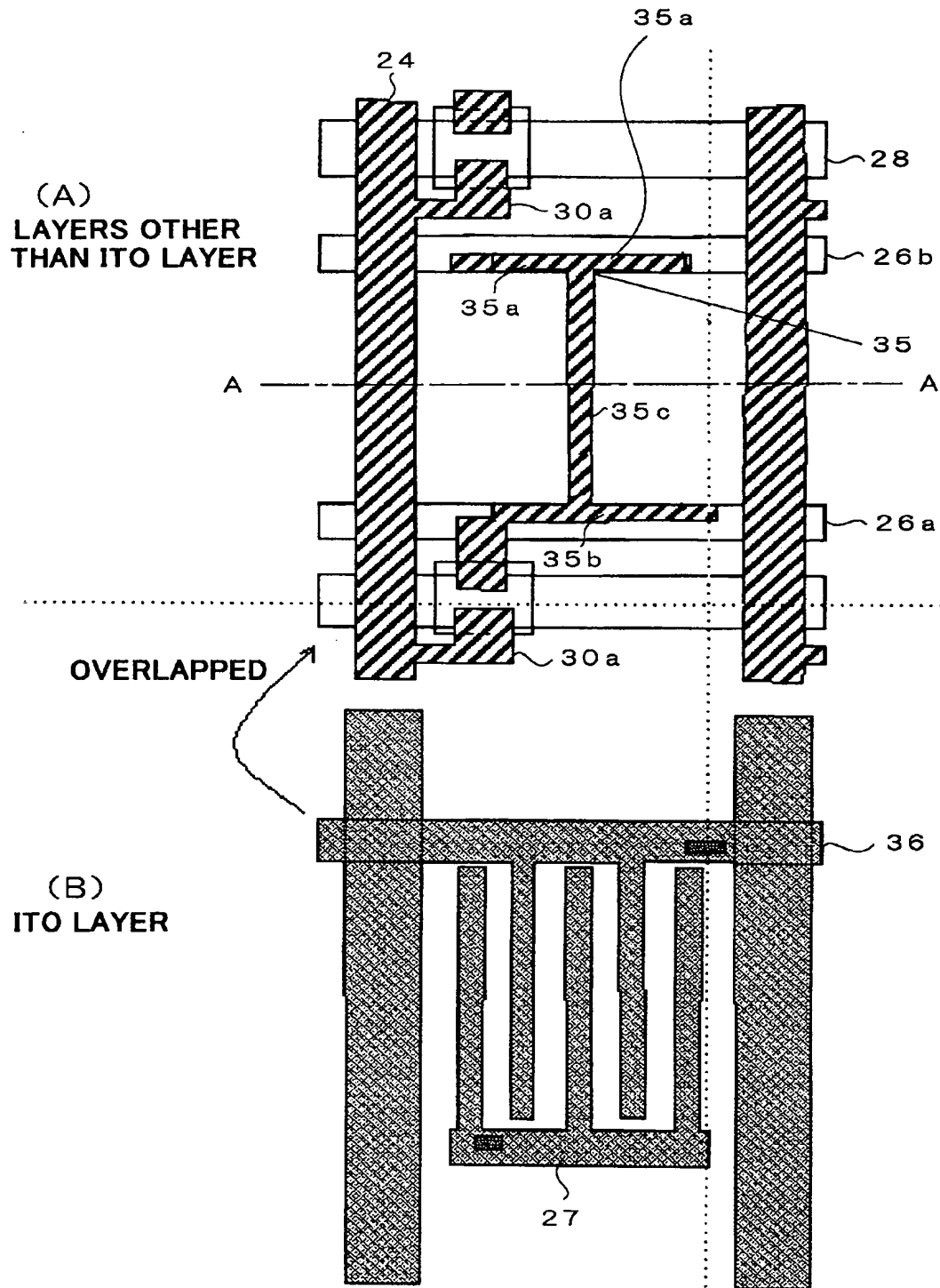
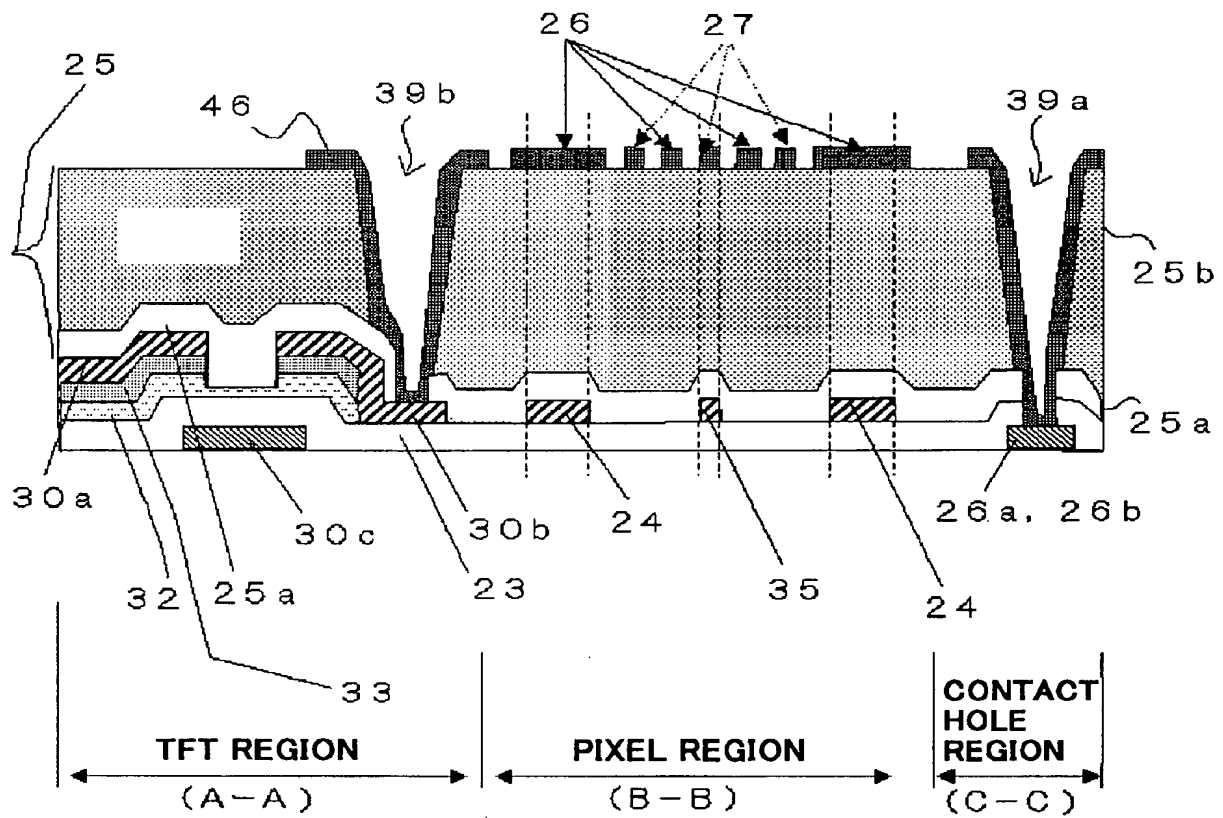
10

FIG. 7



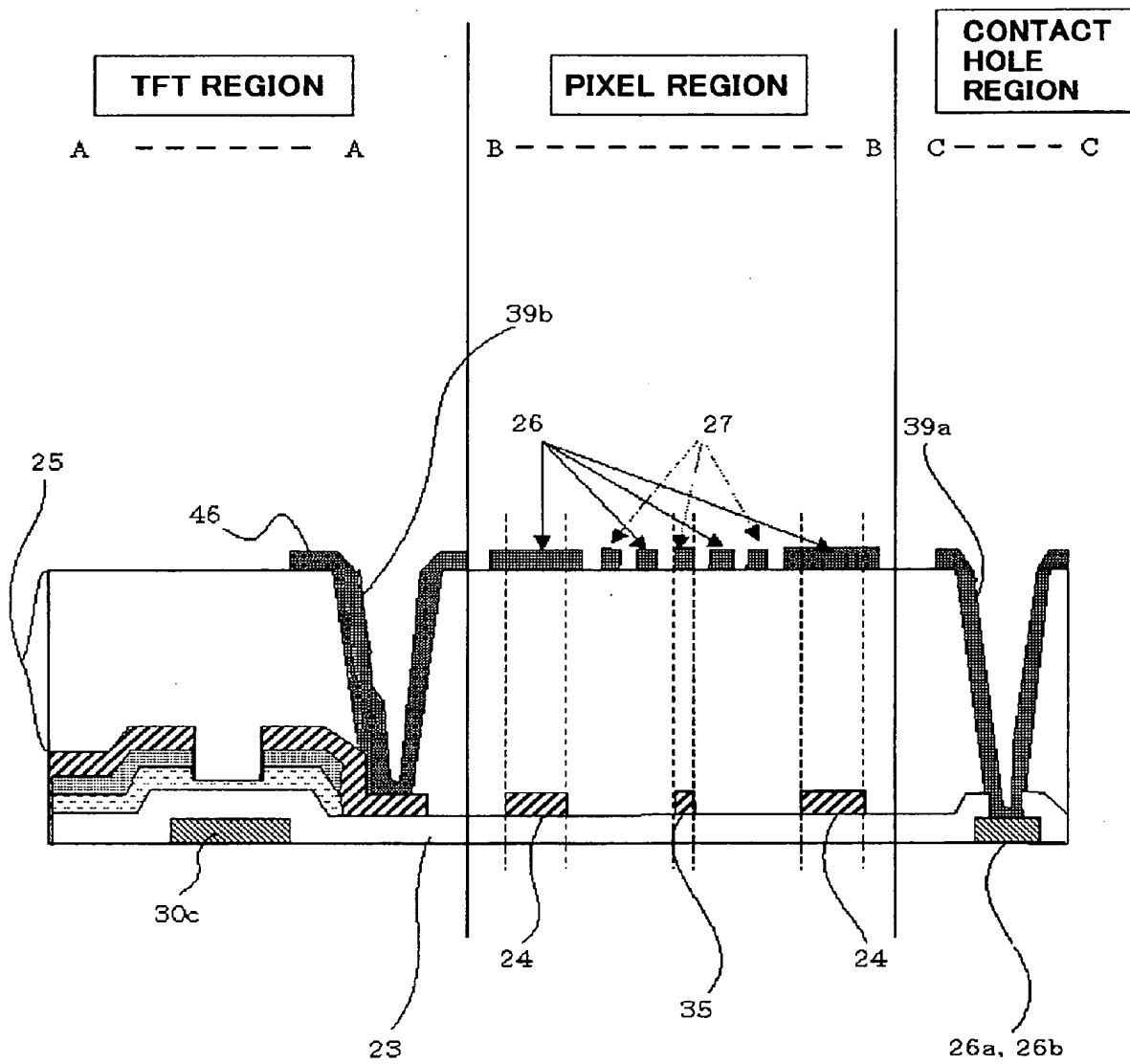
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FIG.8



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FIG.9



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FIG.10

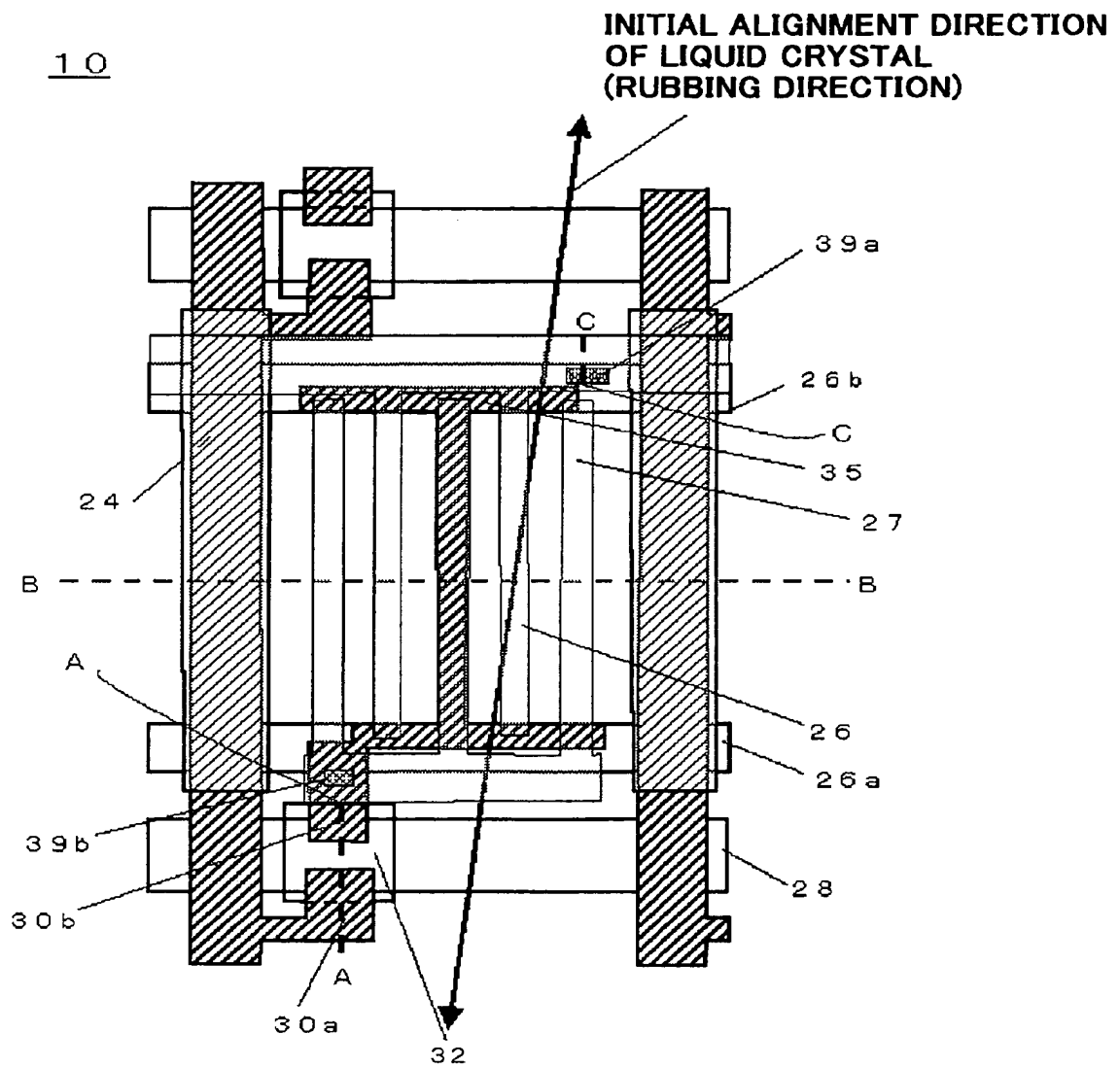
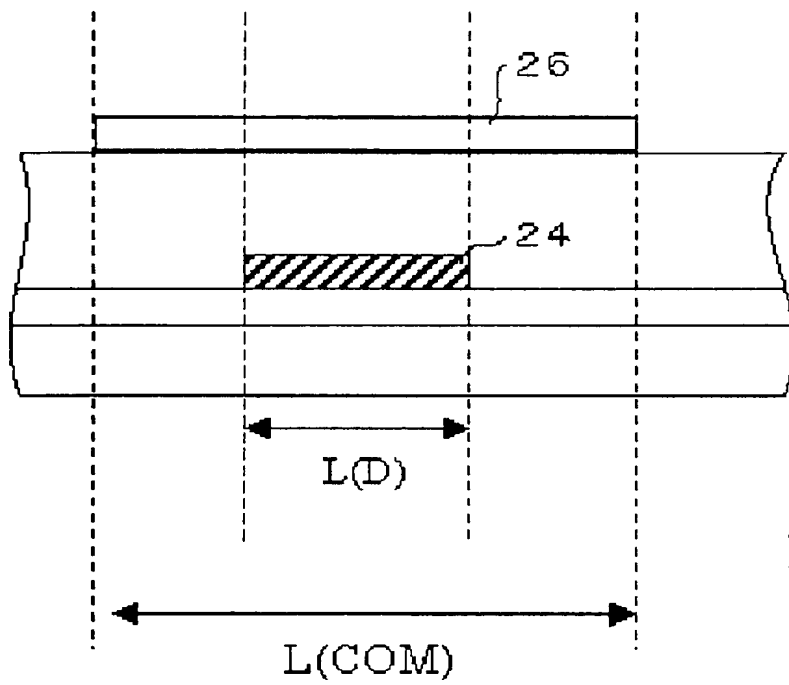


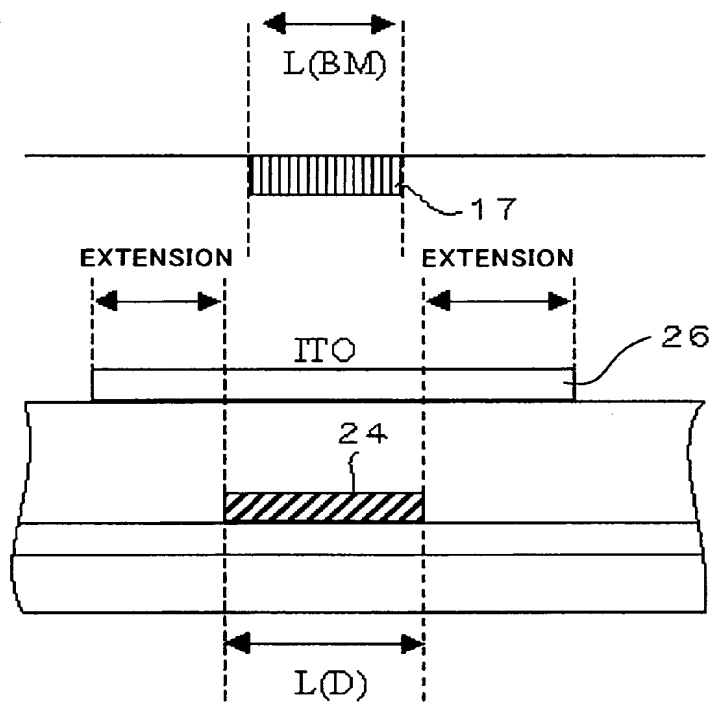
FIG.11



$$L(COM) > L(D)$$

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FIG.12



$$L(D) > L(BM)$$

FIG.13

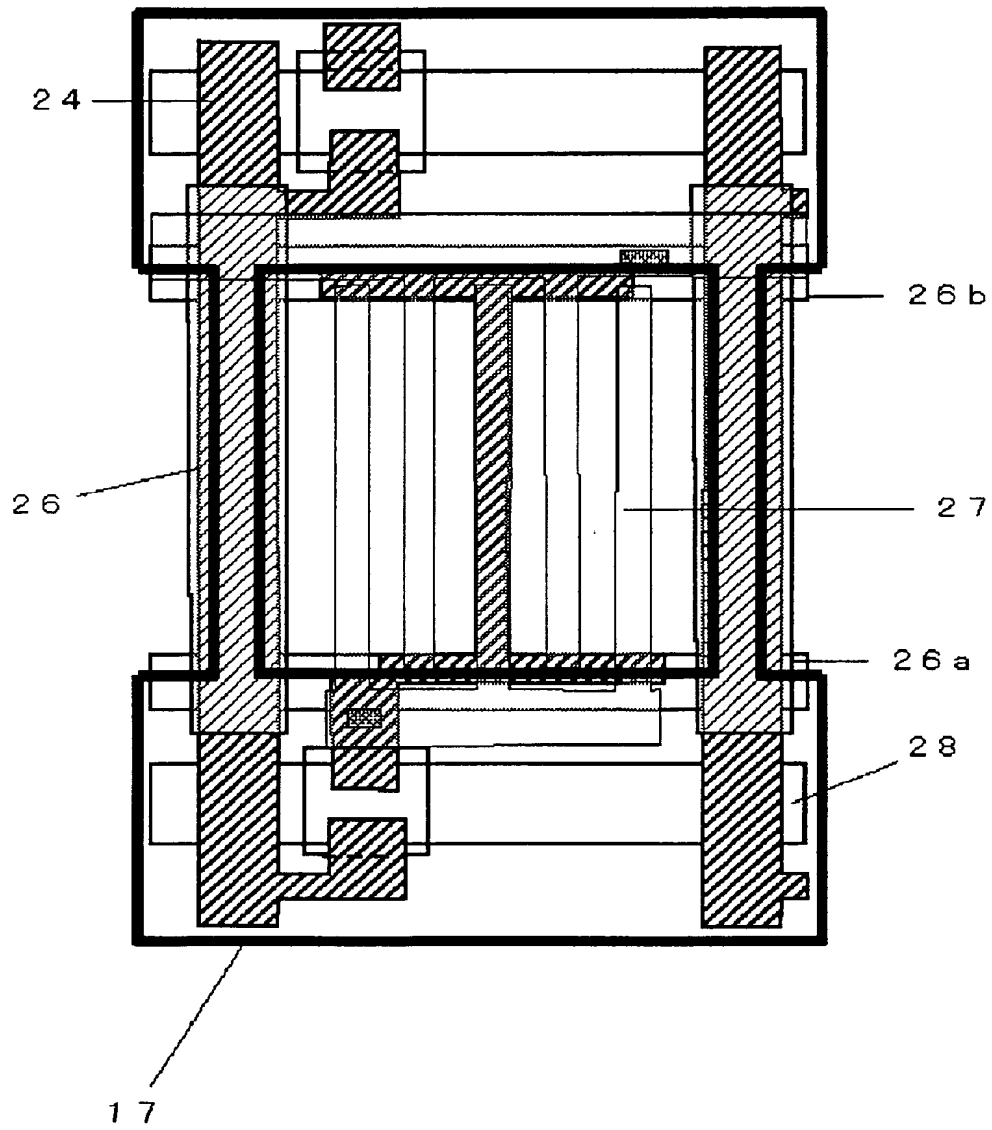
10

FIG.14

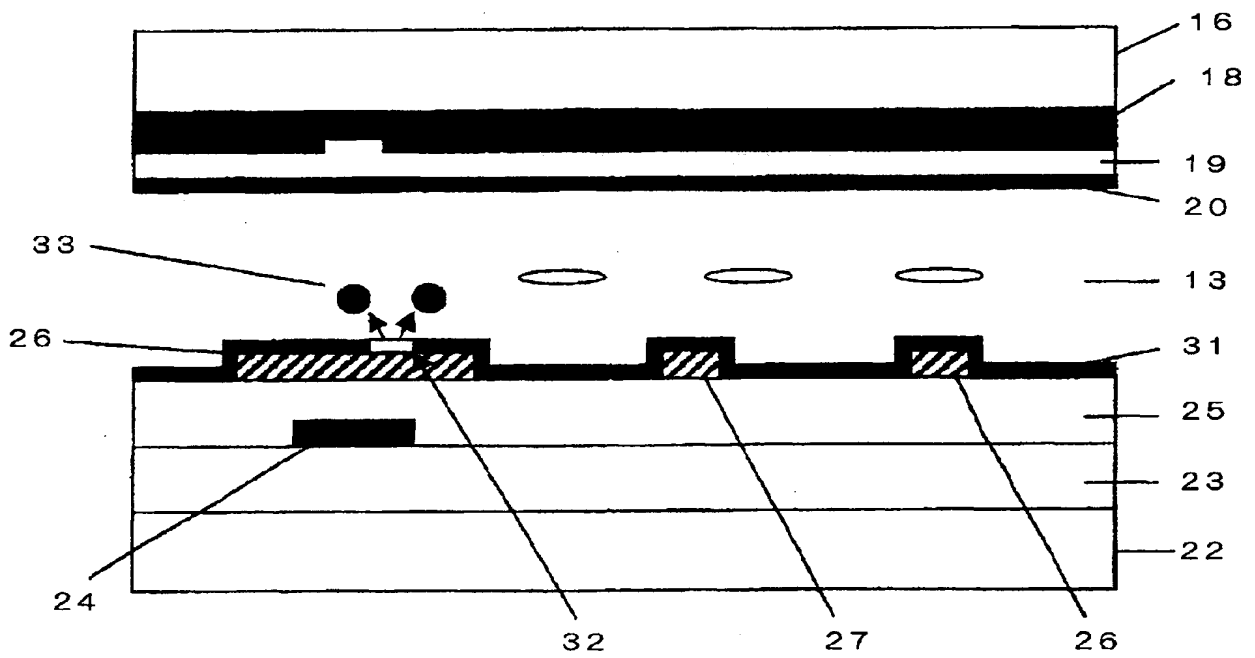


FIG.15

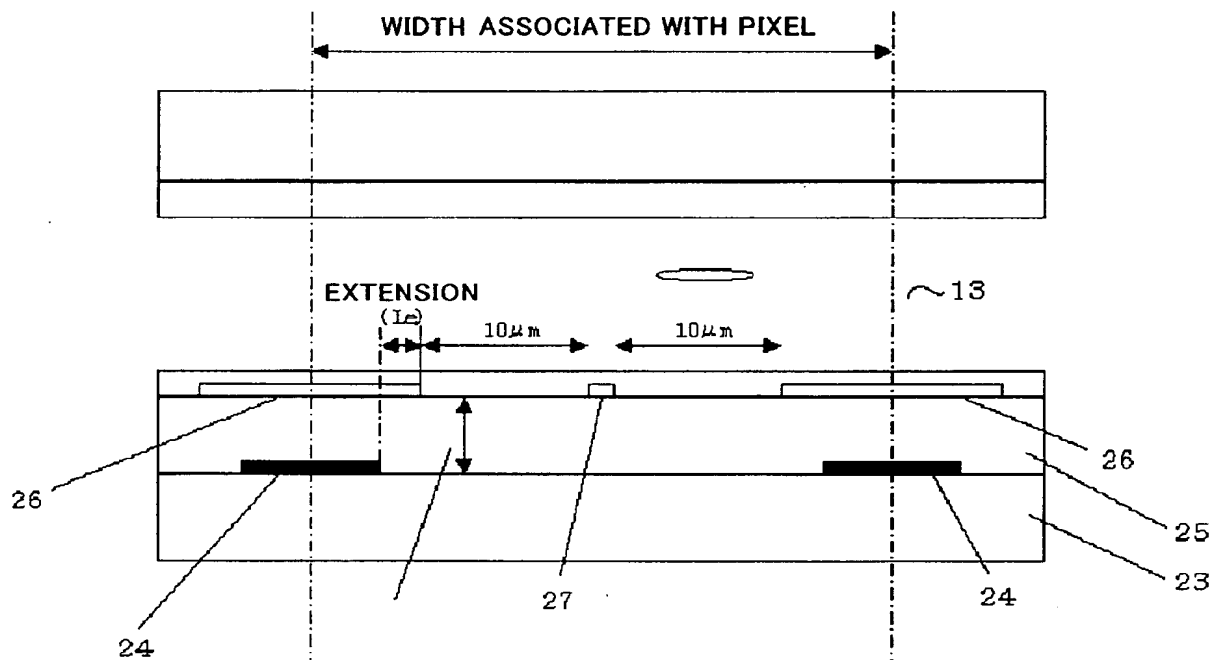


FIG.16

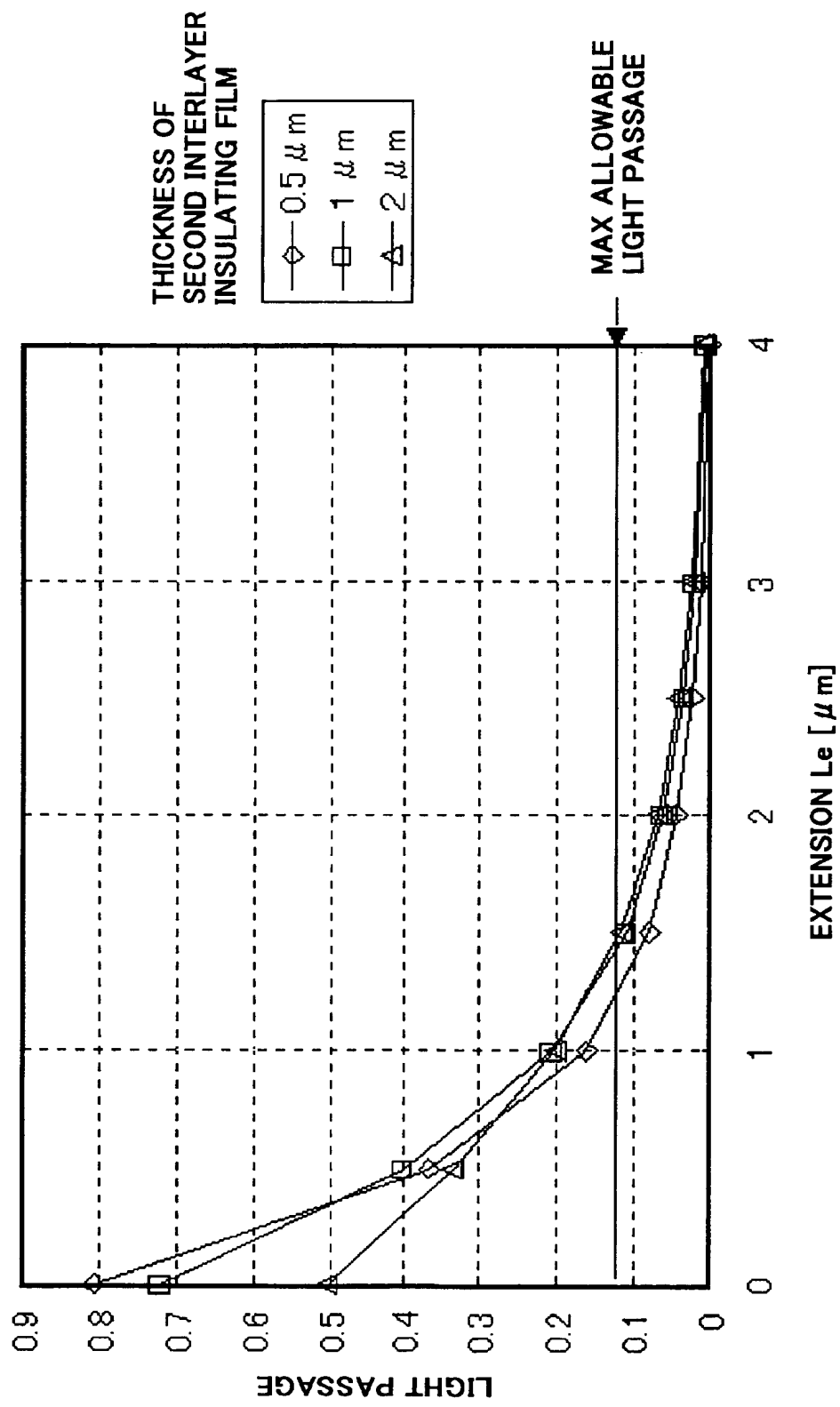


FIG.17

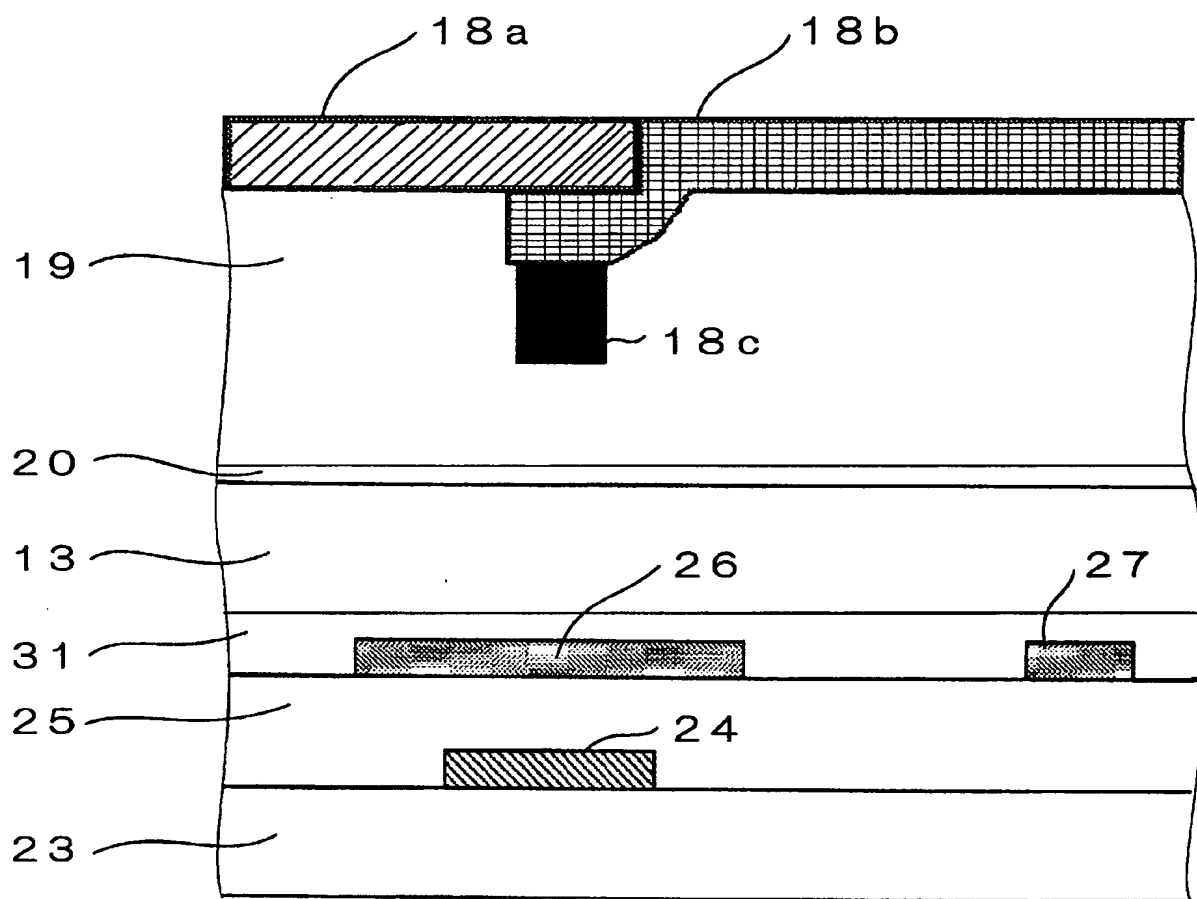
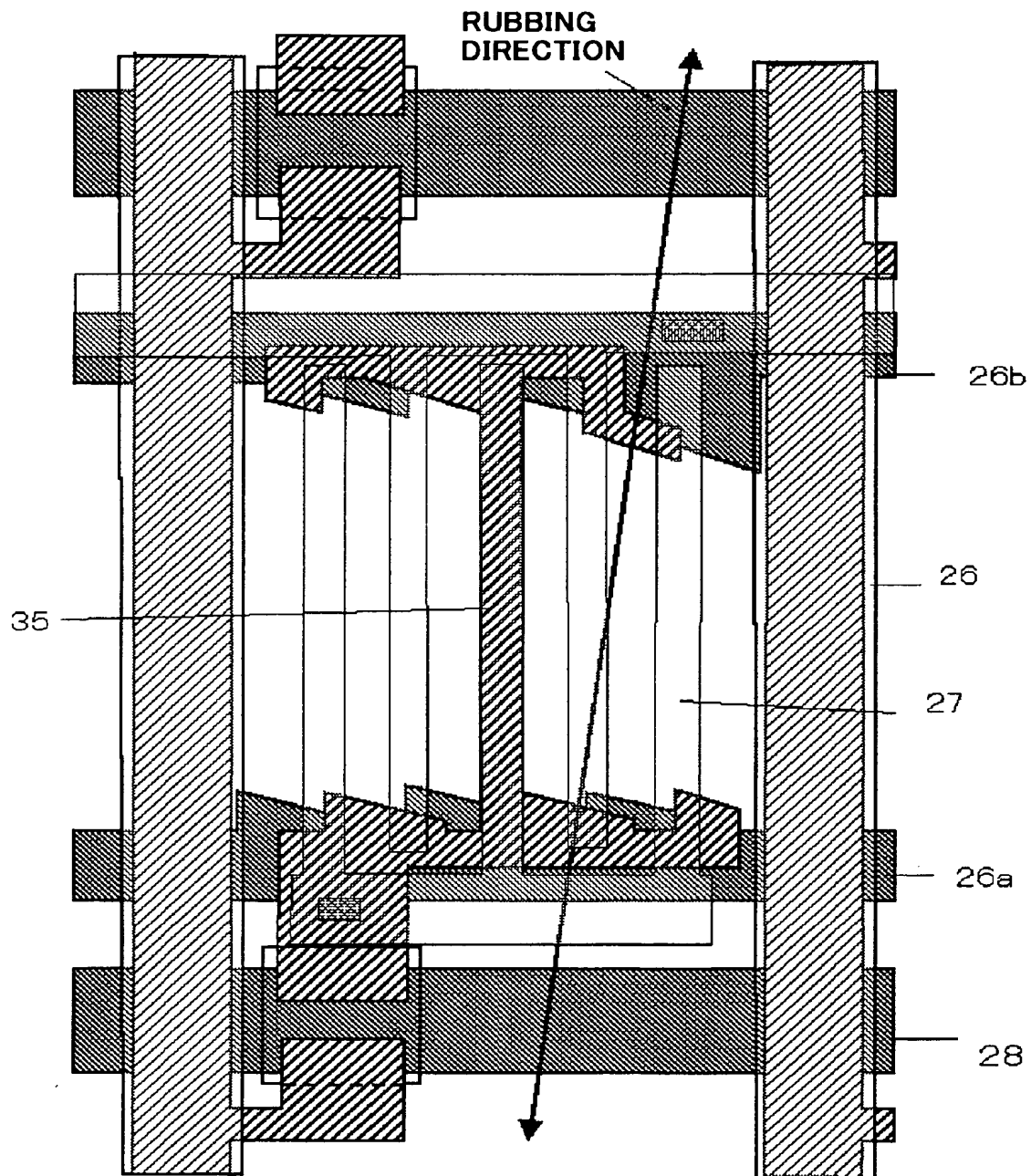


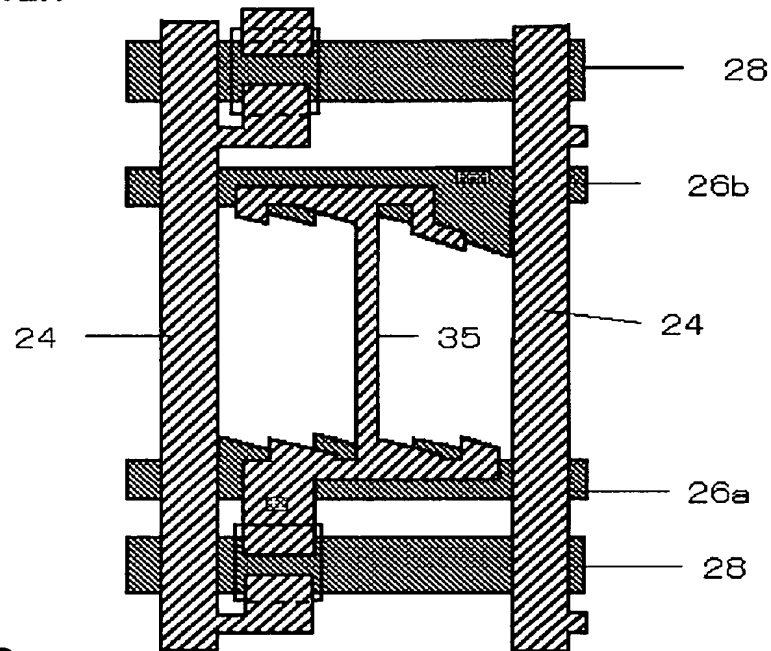
FIG.18



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**FIG.19A**

LAYERS OTHER  
THAN ITO LAYER



**FIG.19B**

ITO LAYER

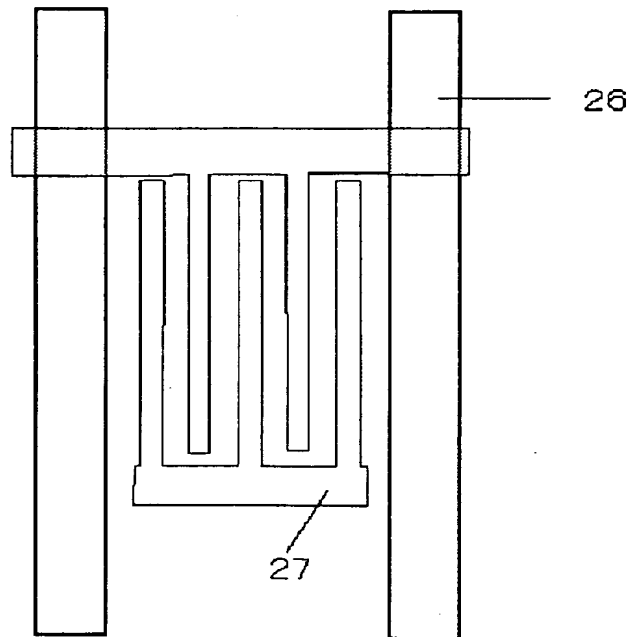


FIG.20

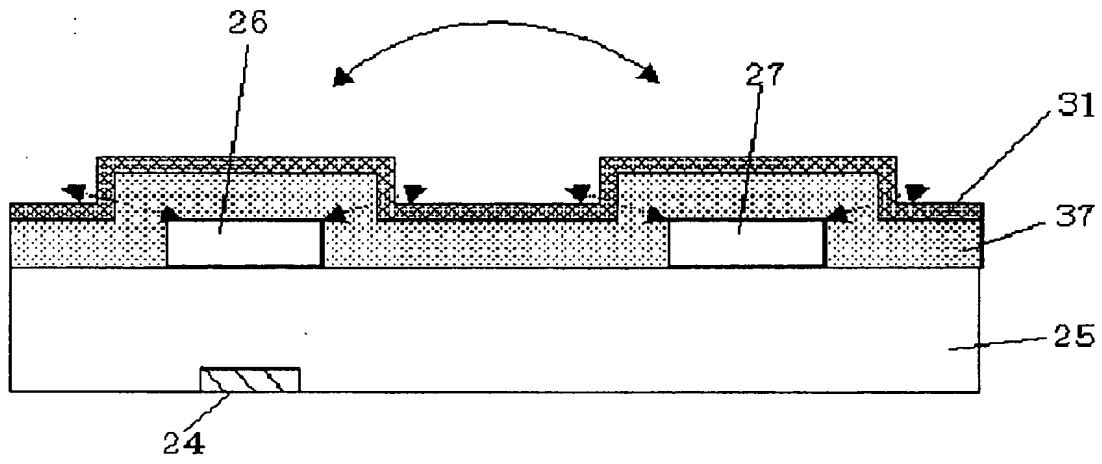
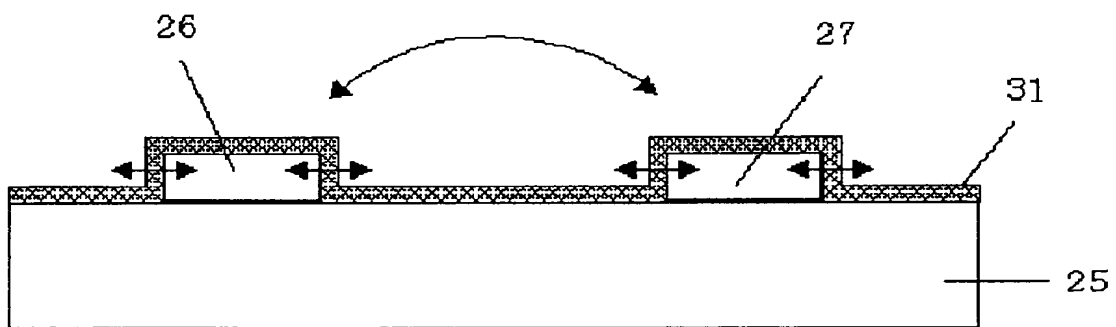


FIG.21



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FIG.22

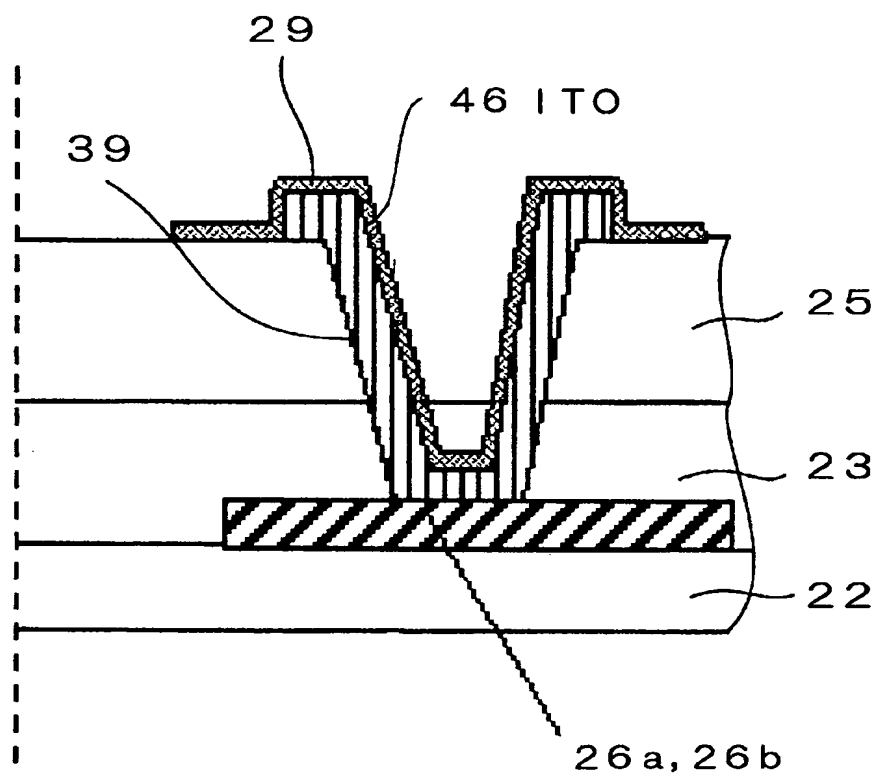


FIG.23

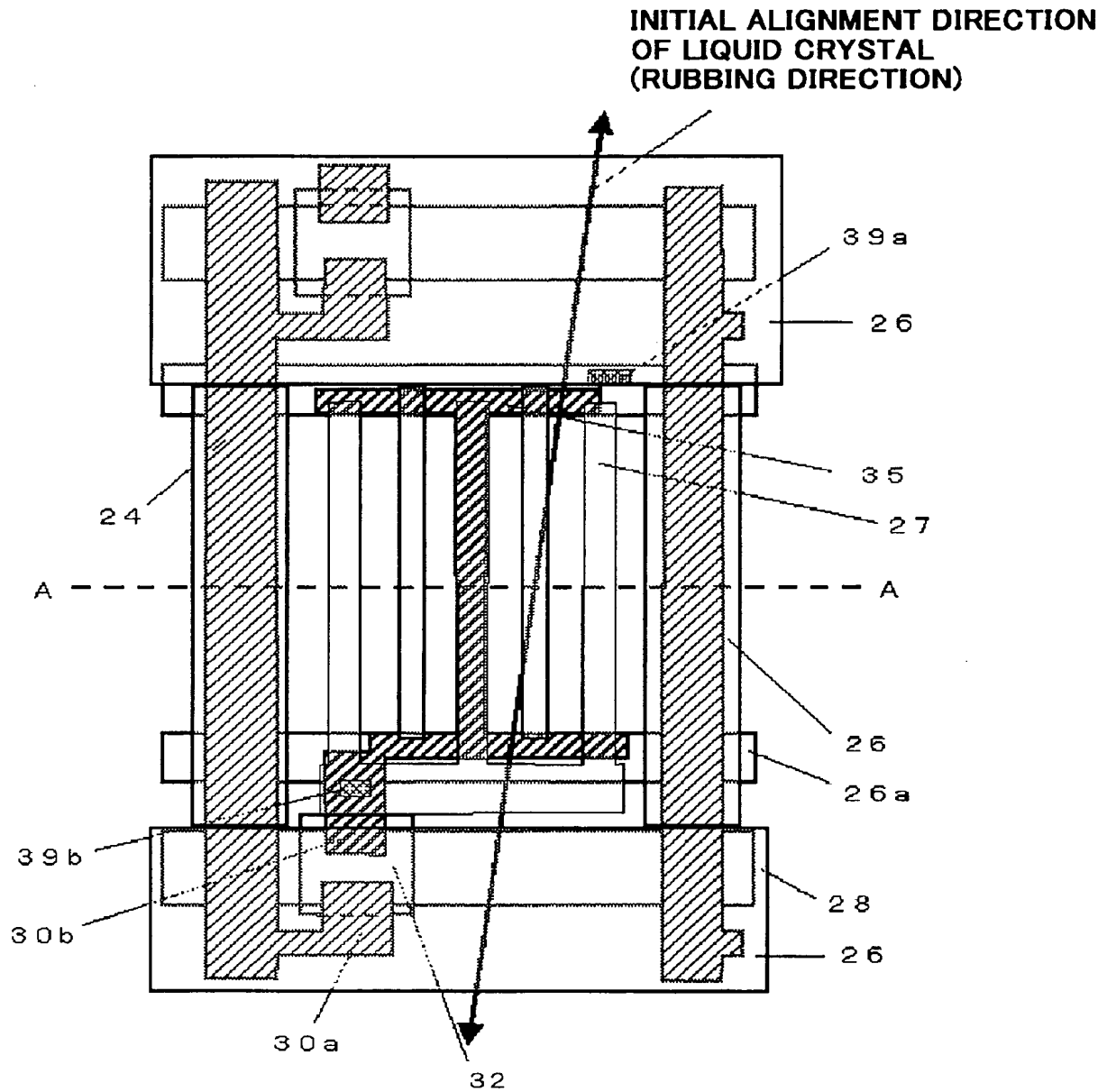


FIG.24

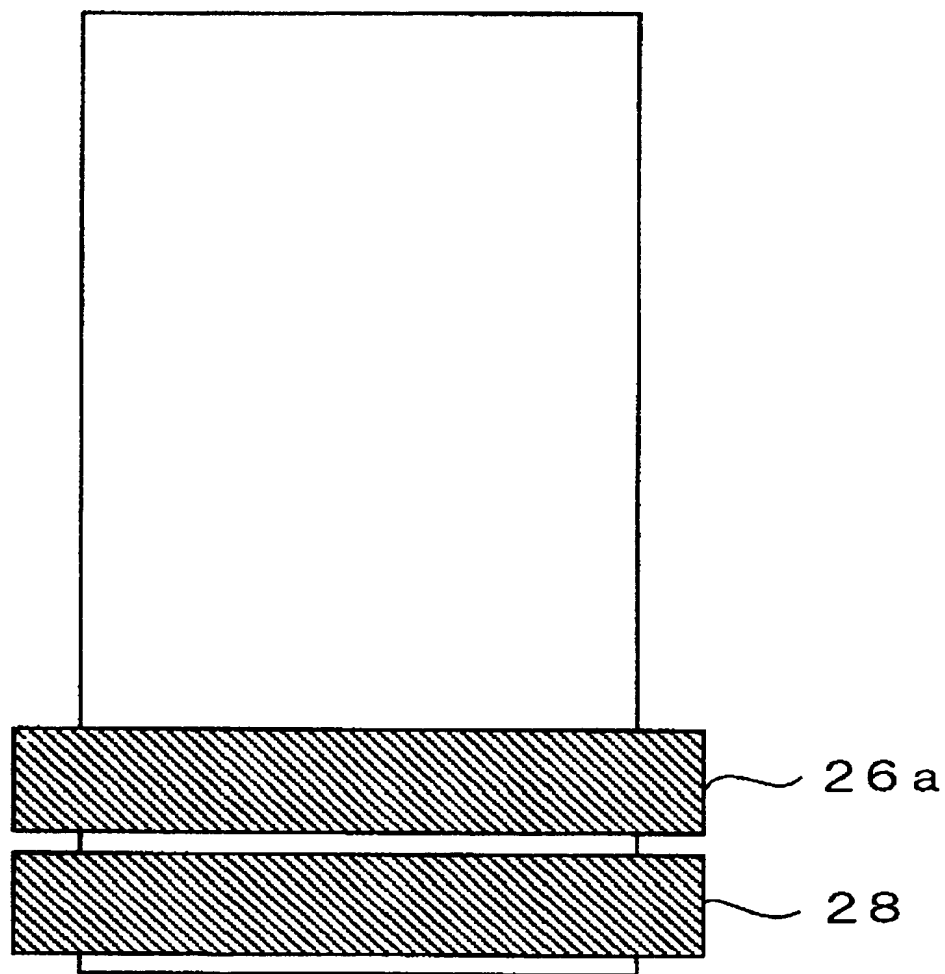


FIG.25

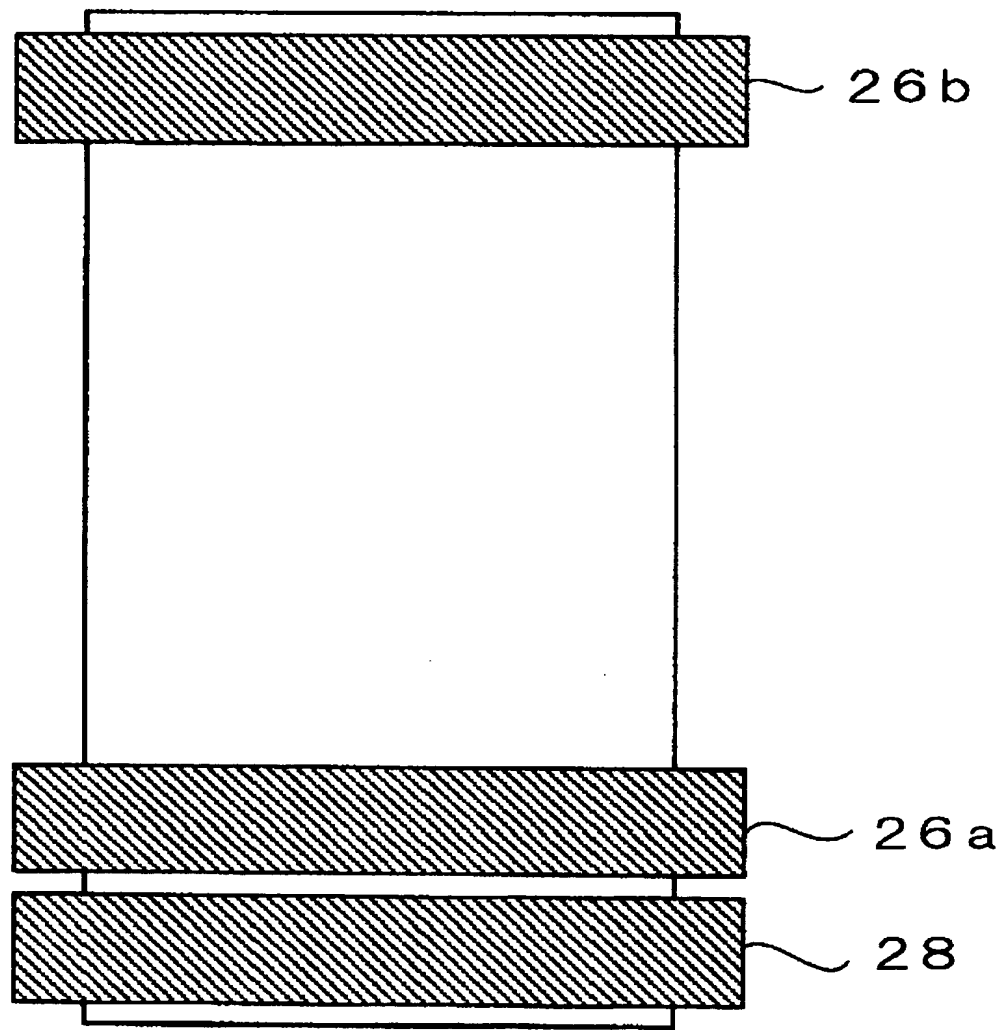


FIG.26

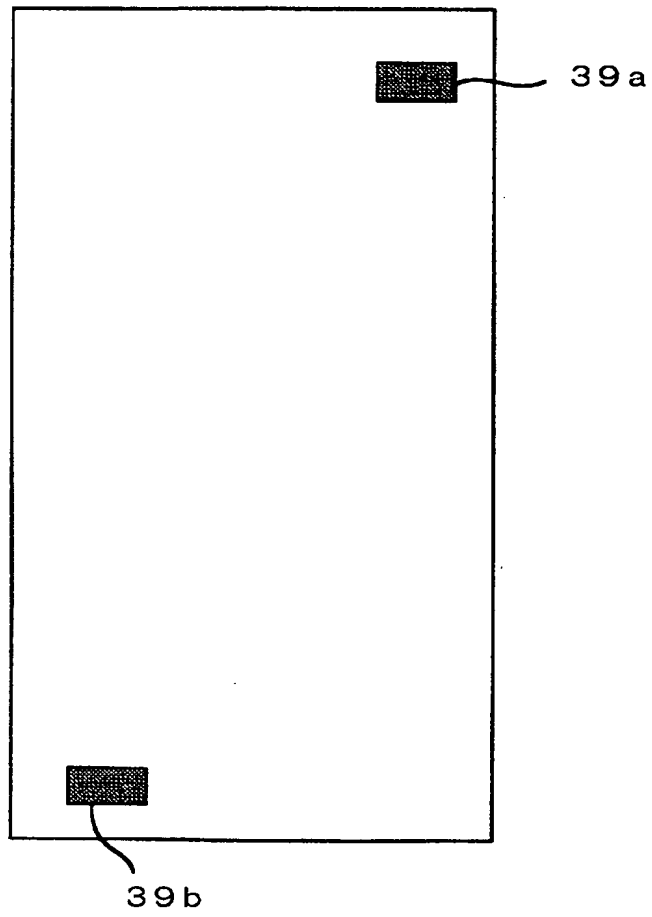
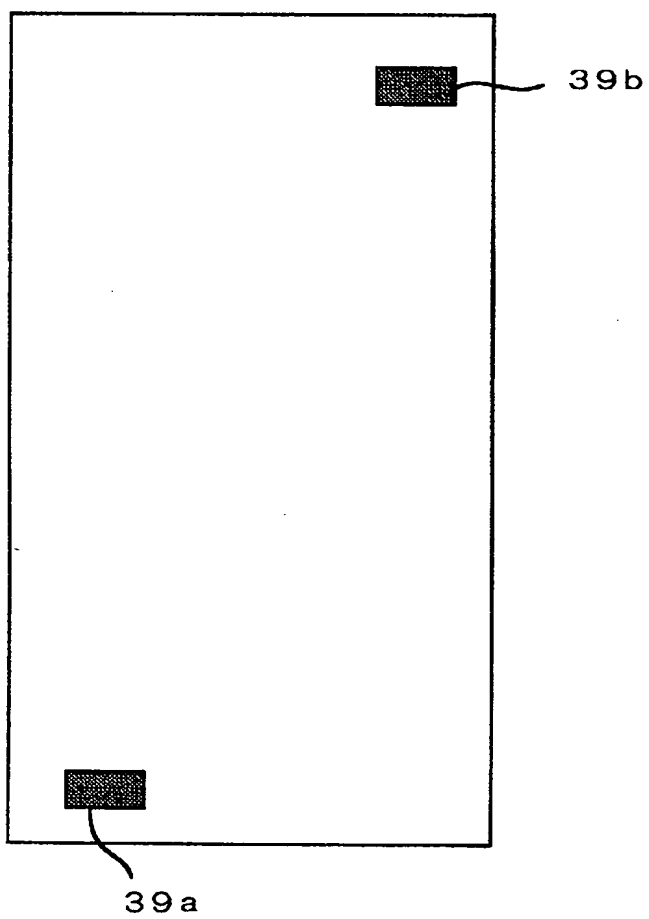
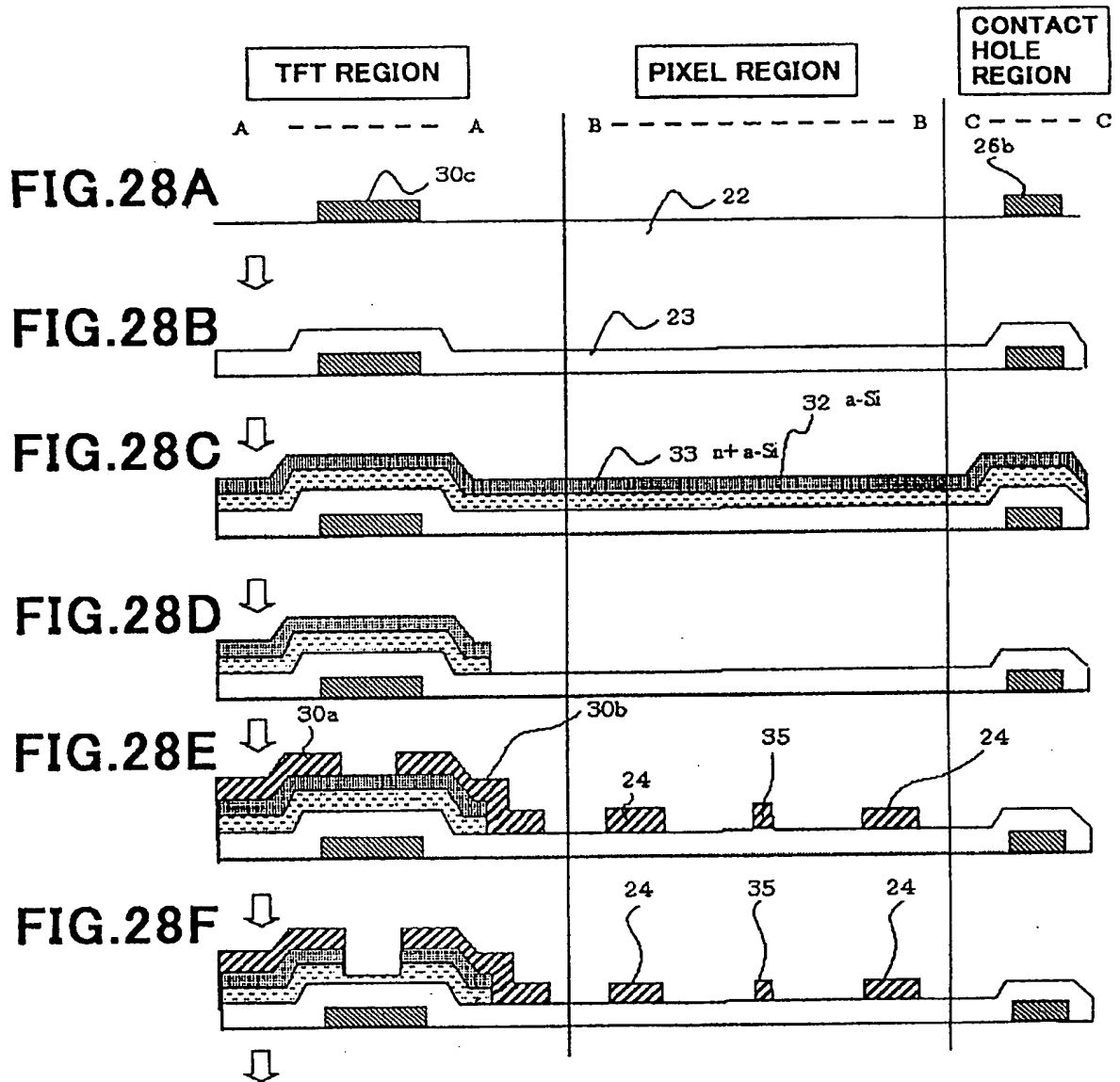
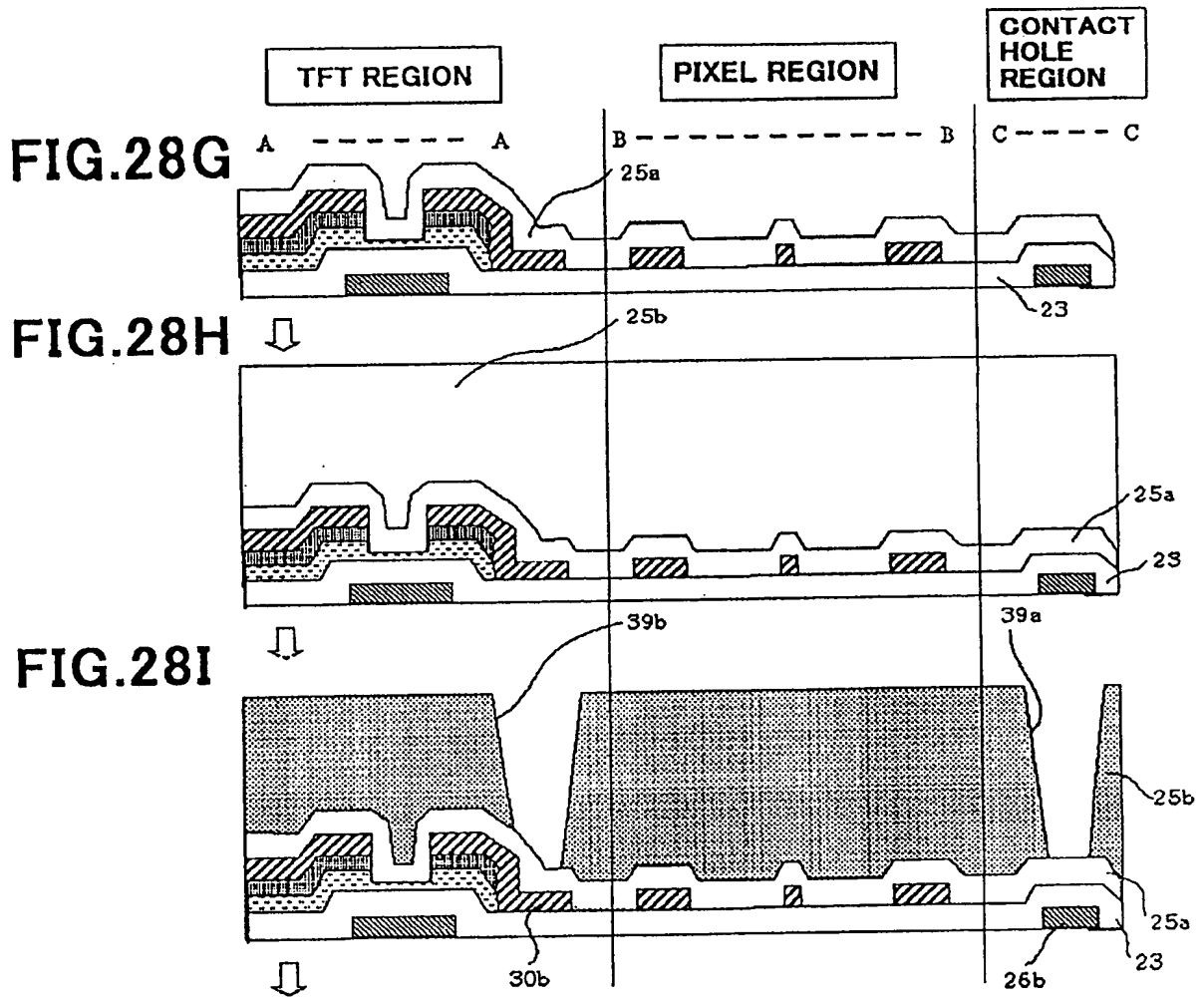
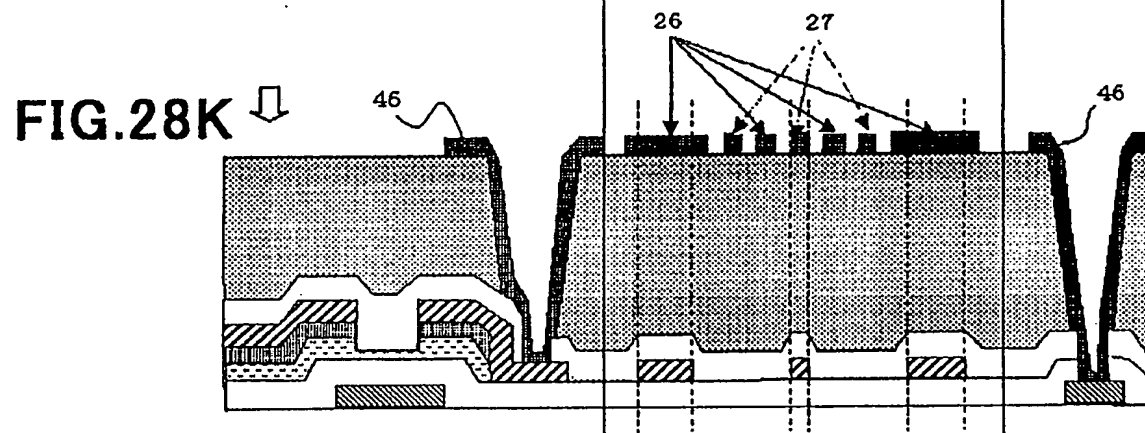
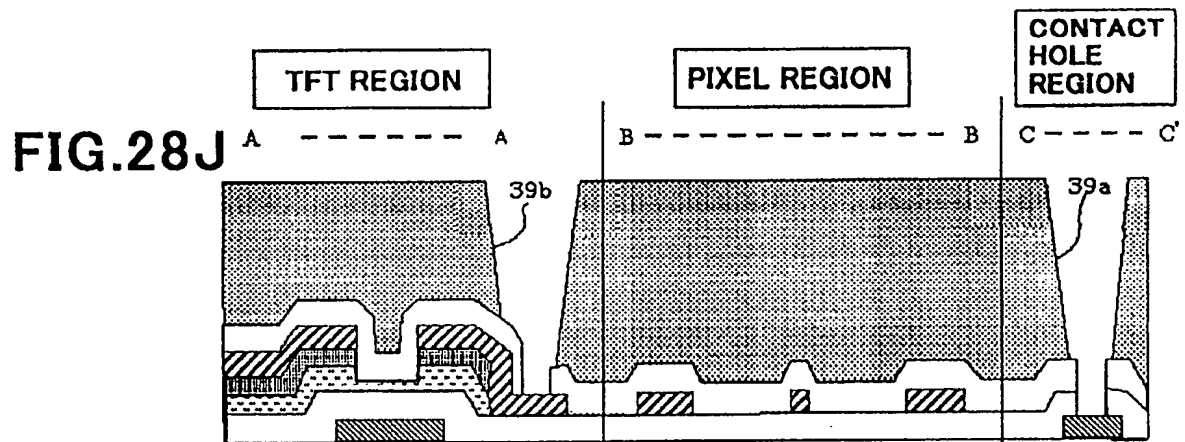


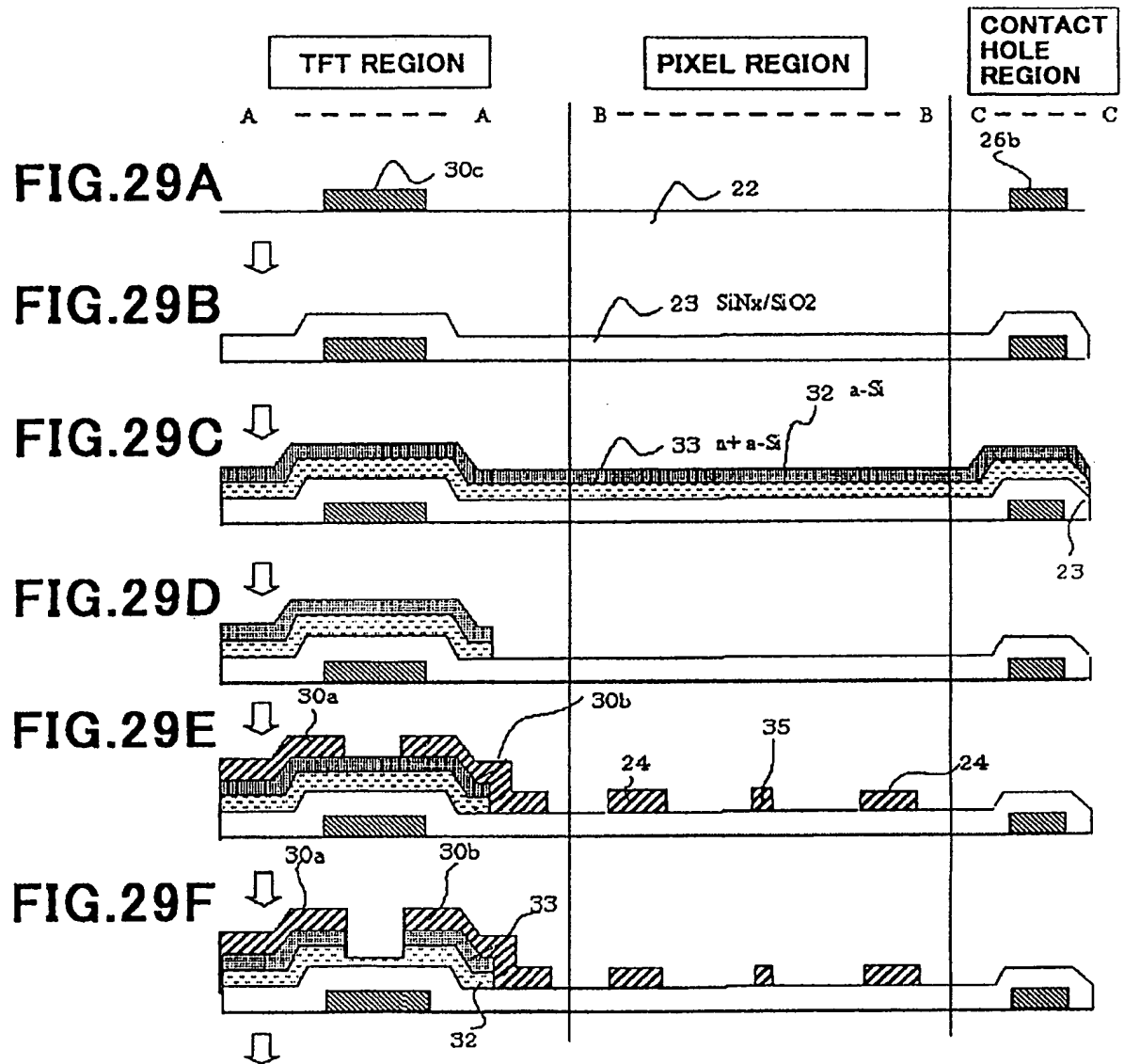
FIG.27











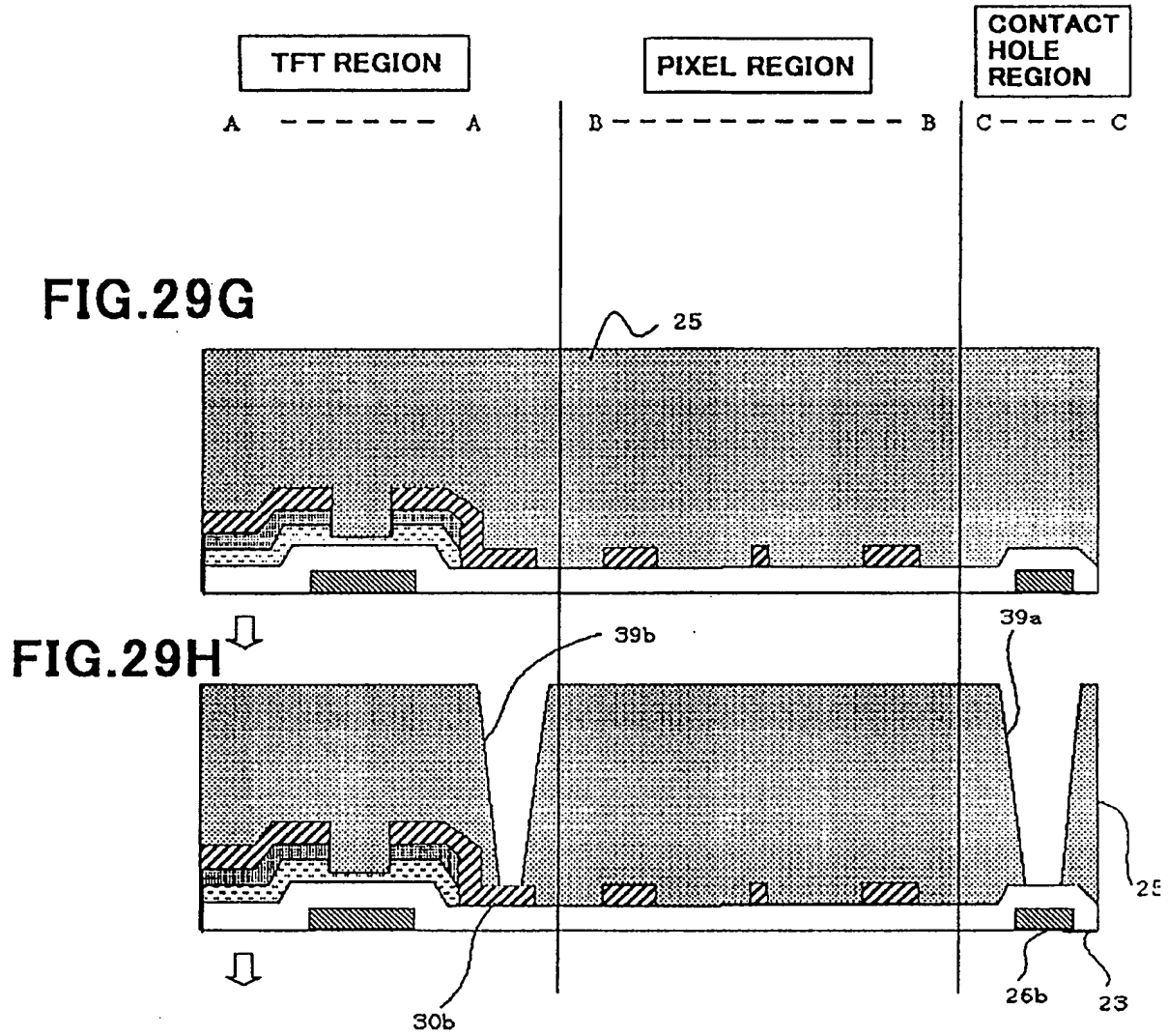
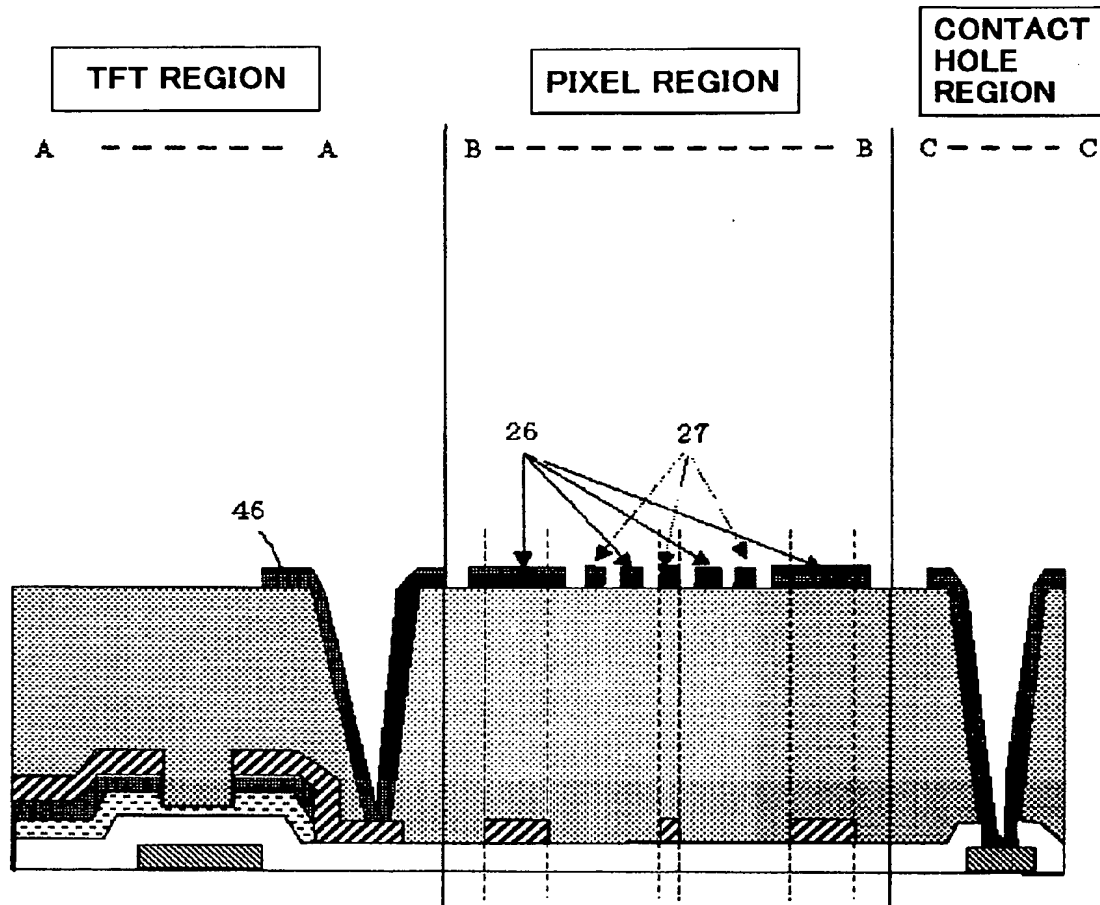
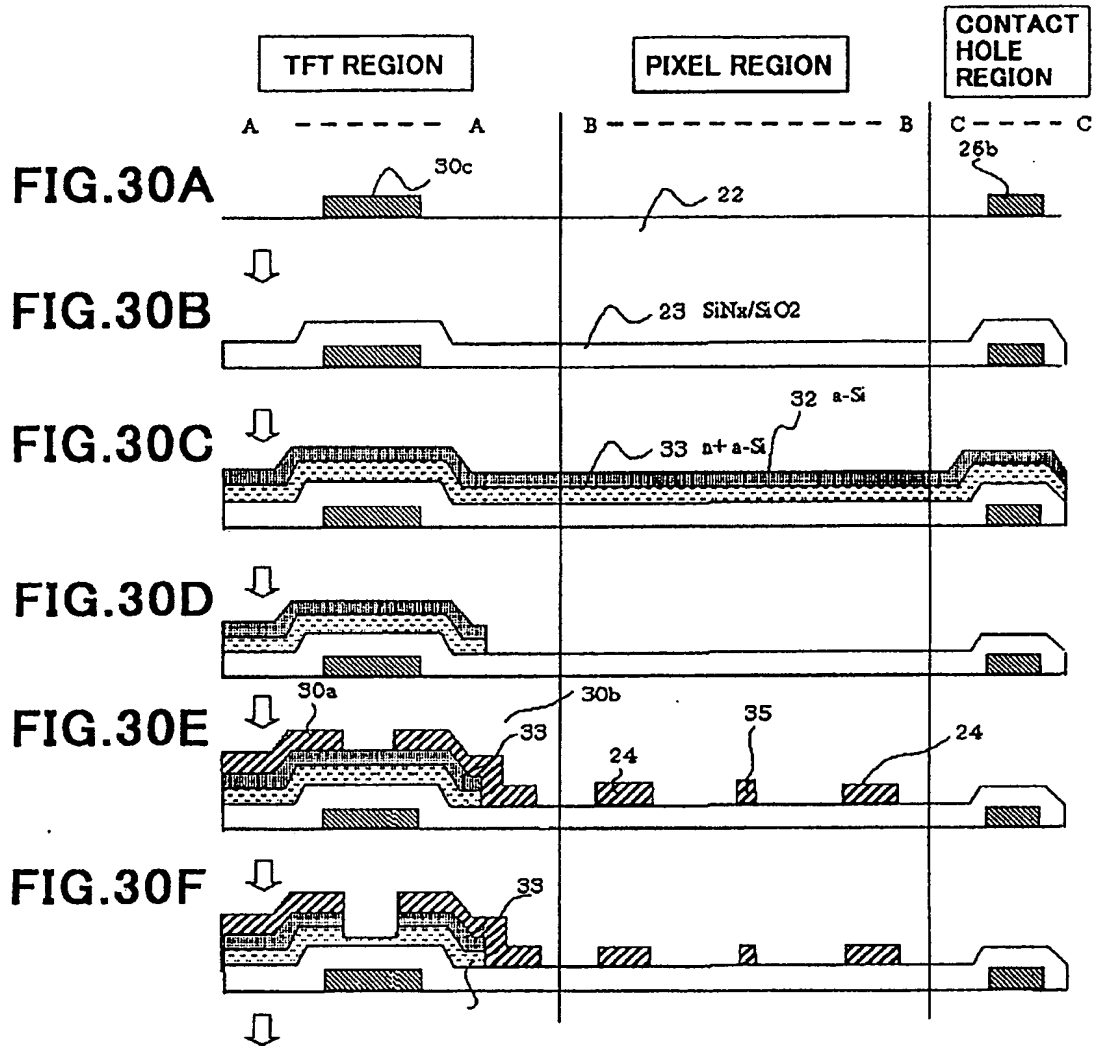


FIG.29I





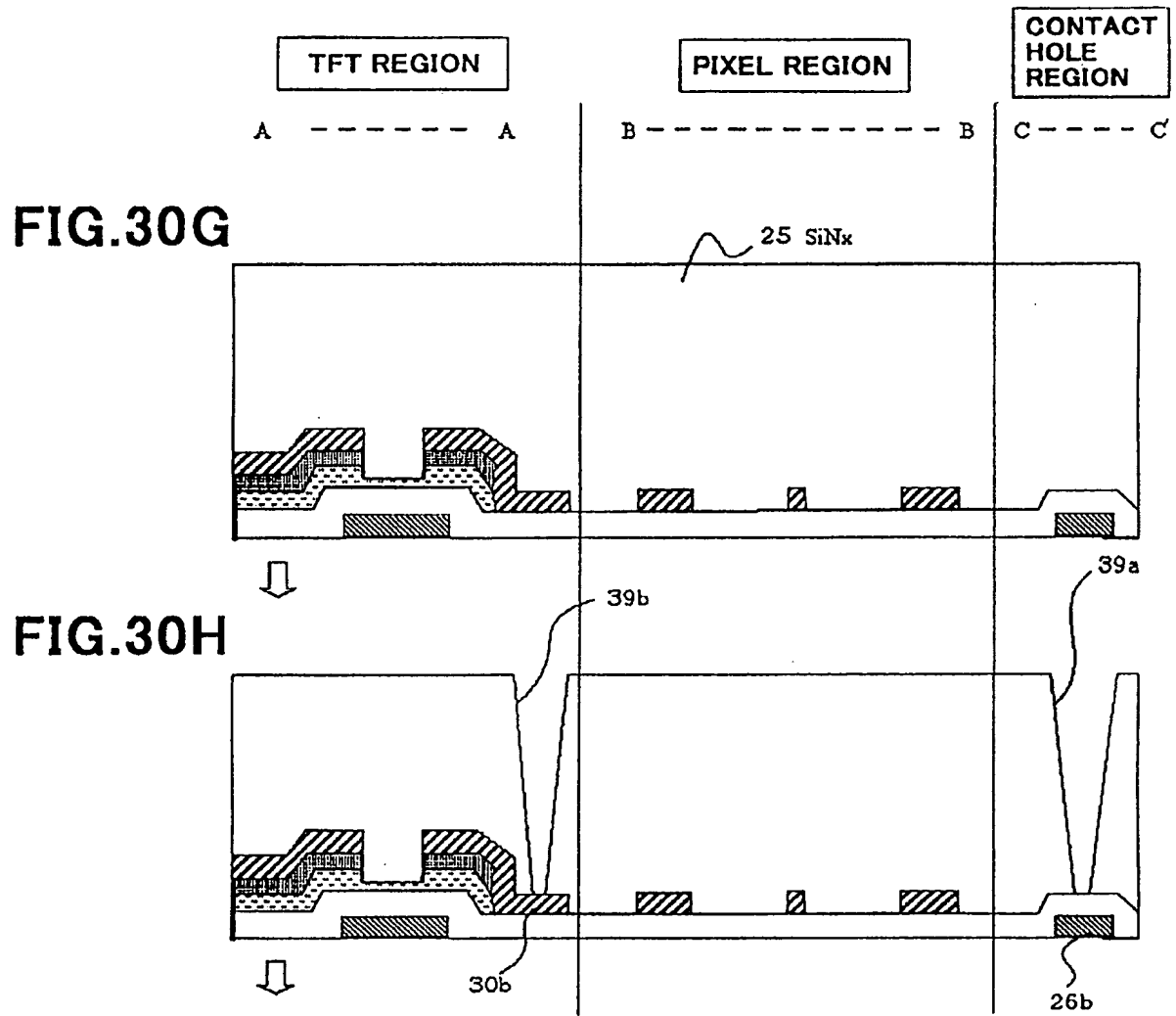


FIG.30I

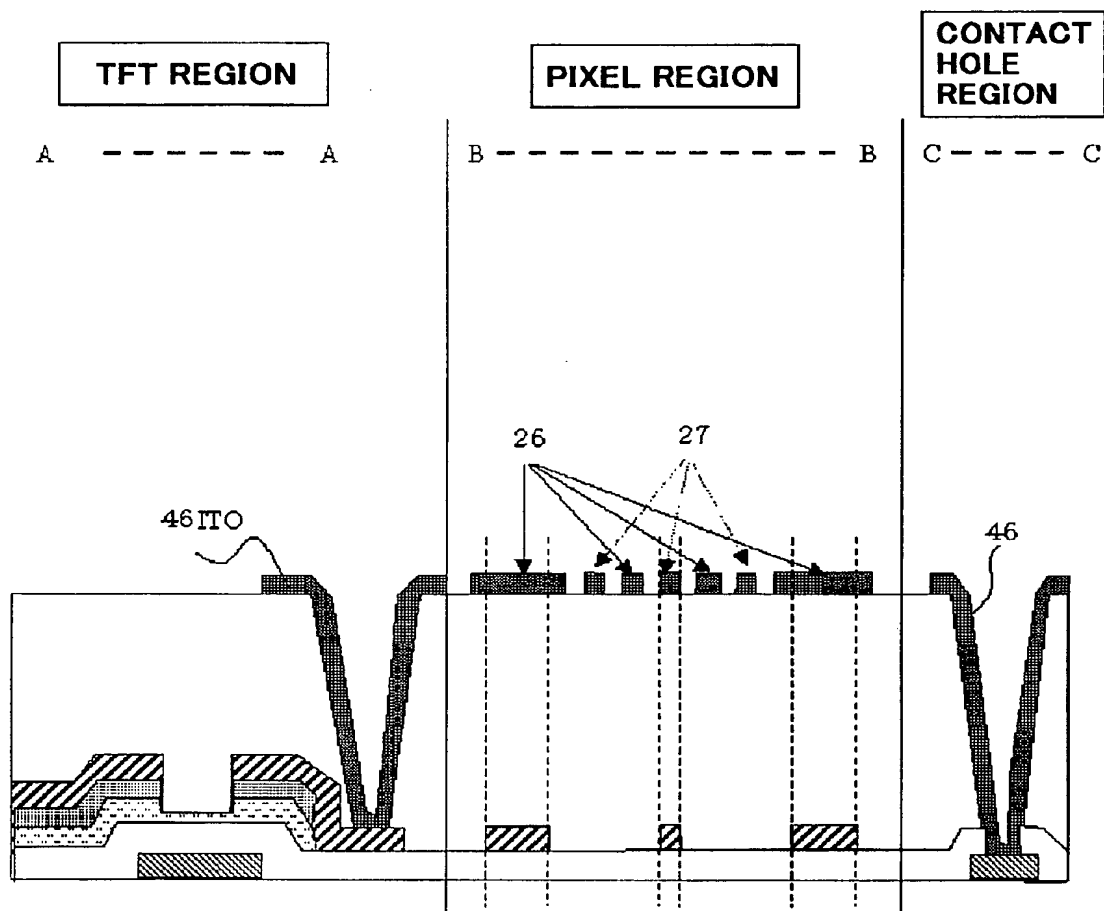


FIG.31

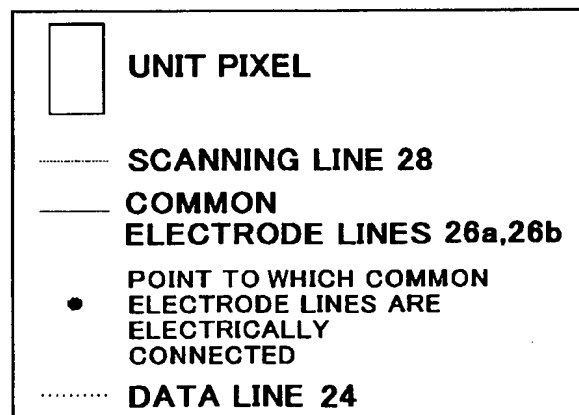
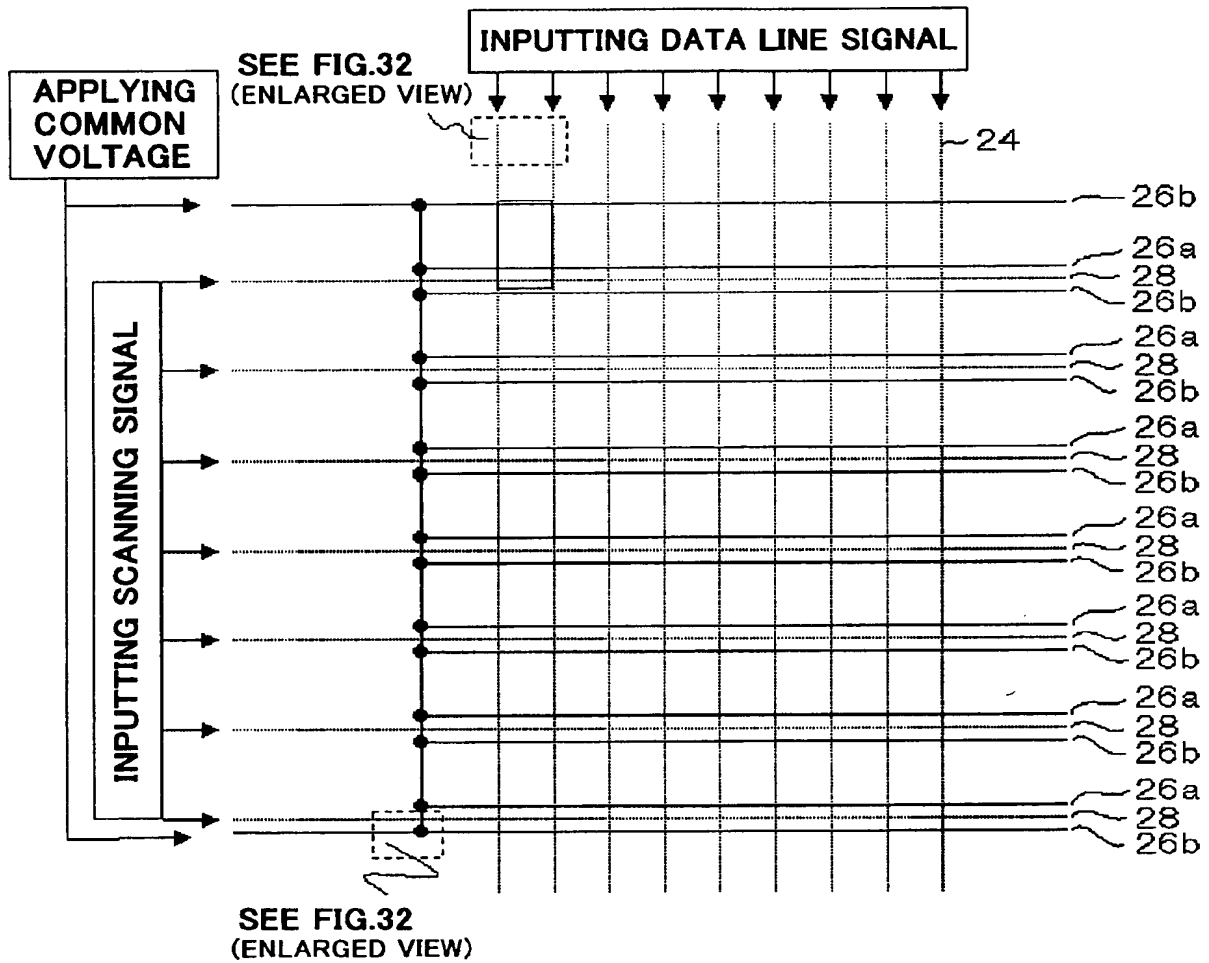
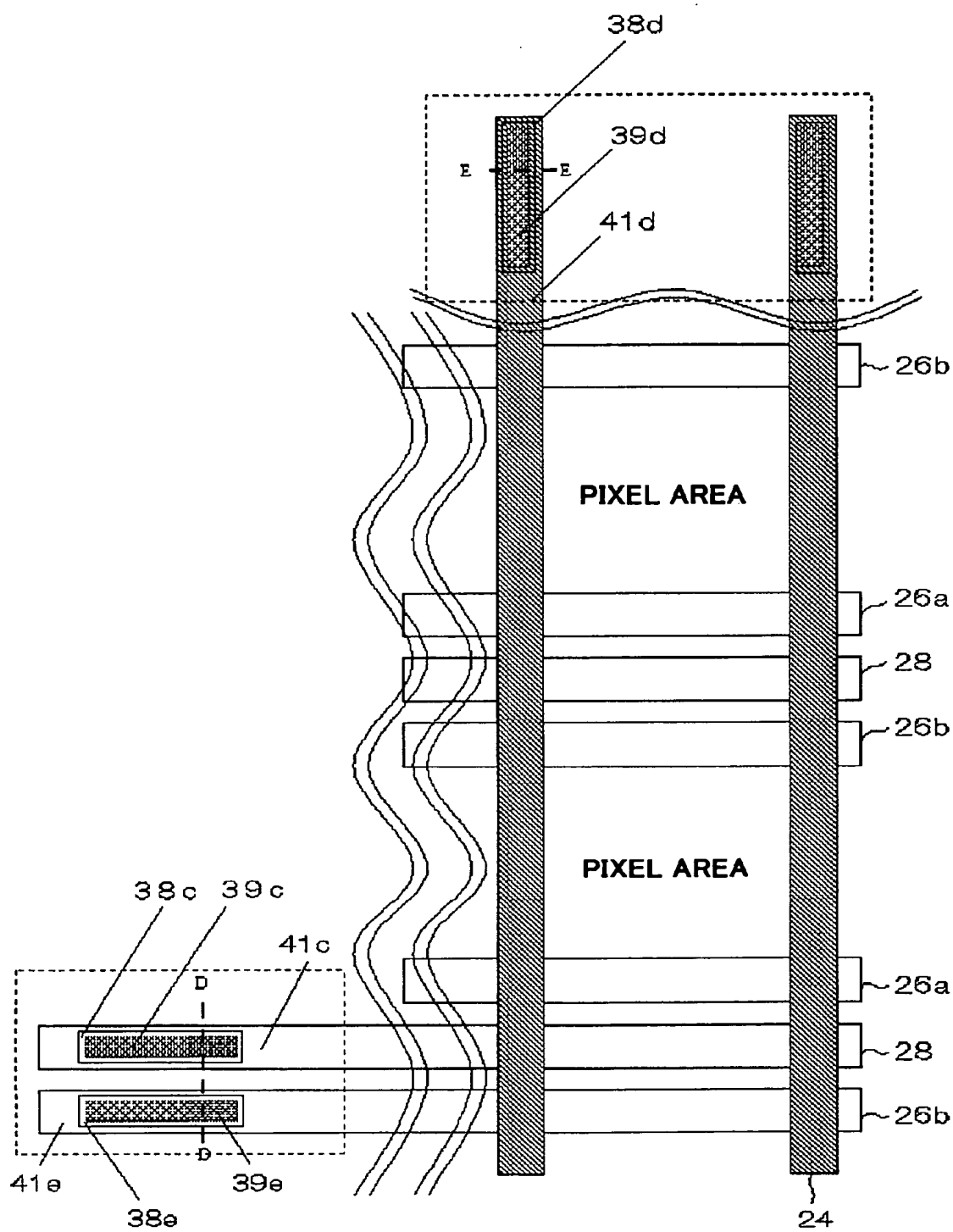
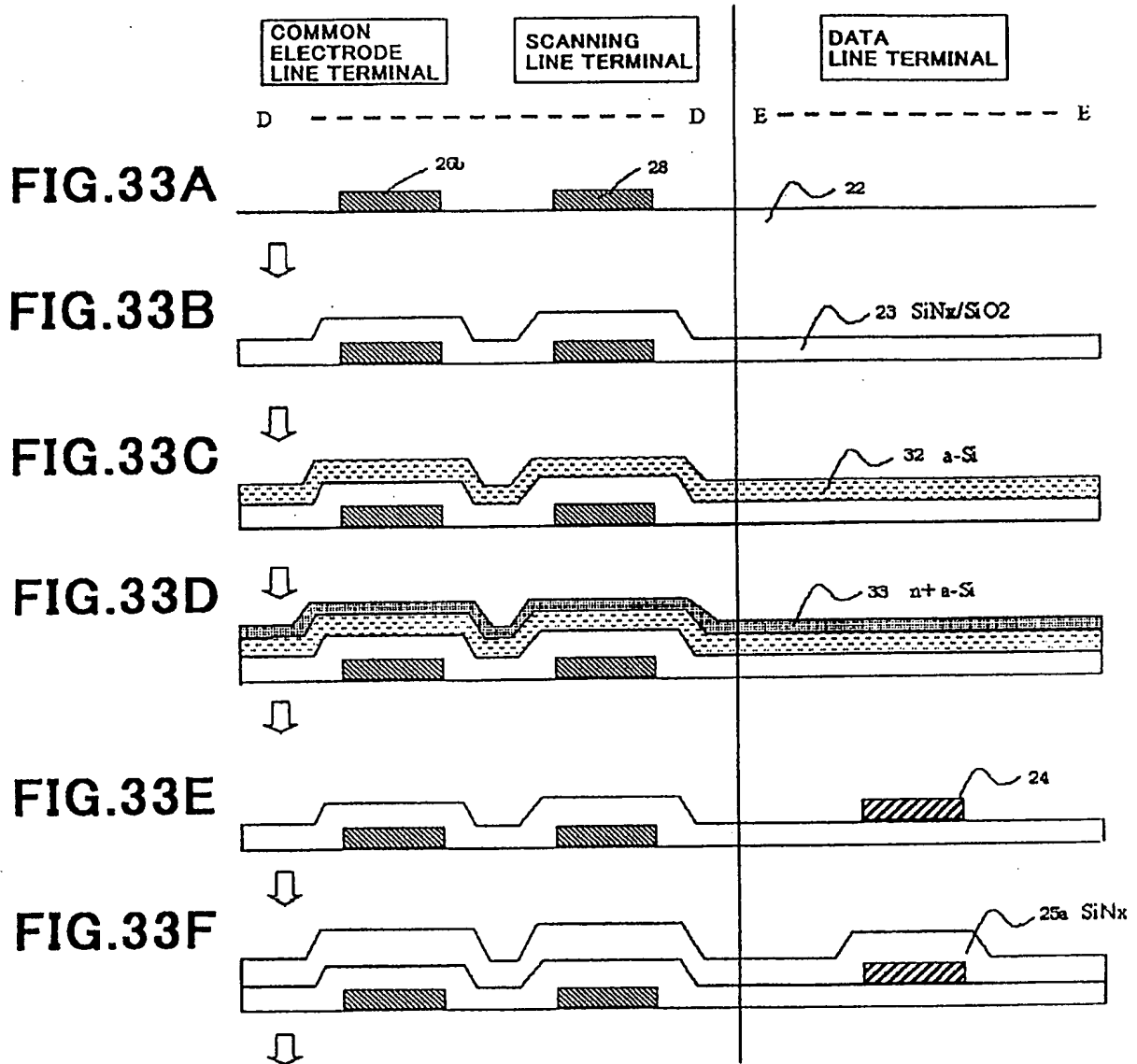
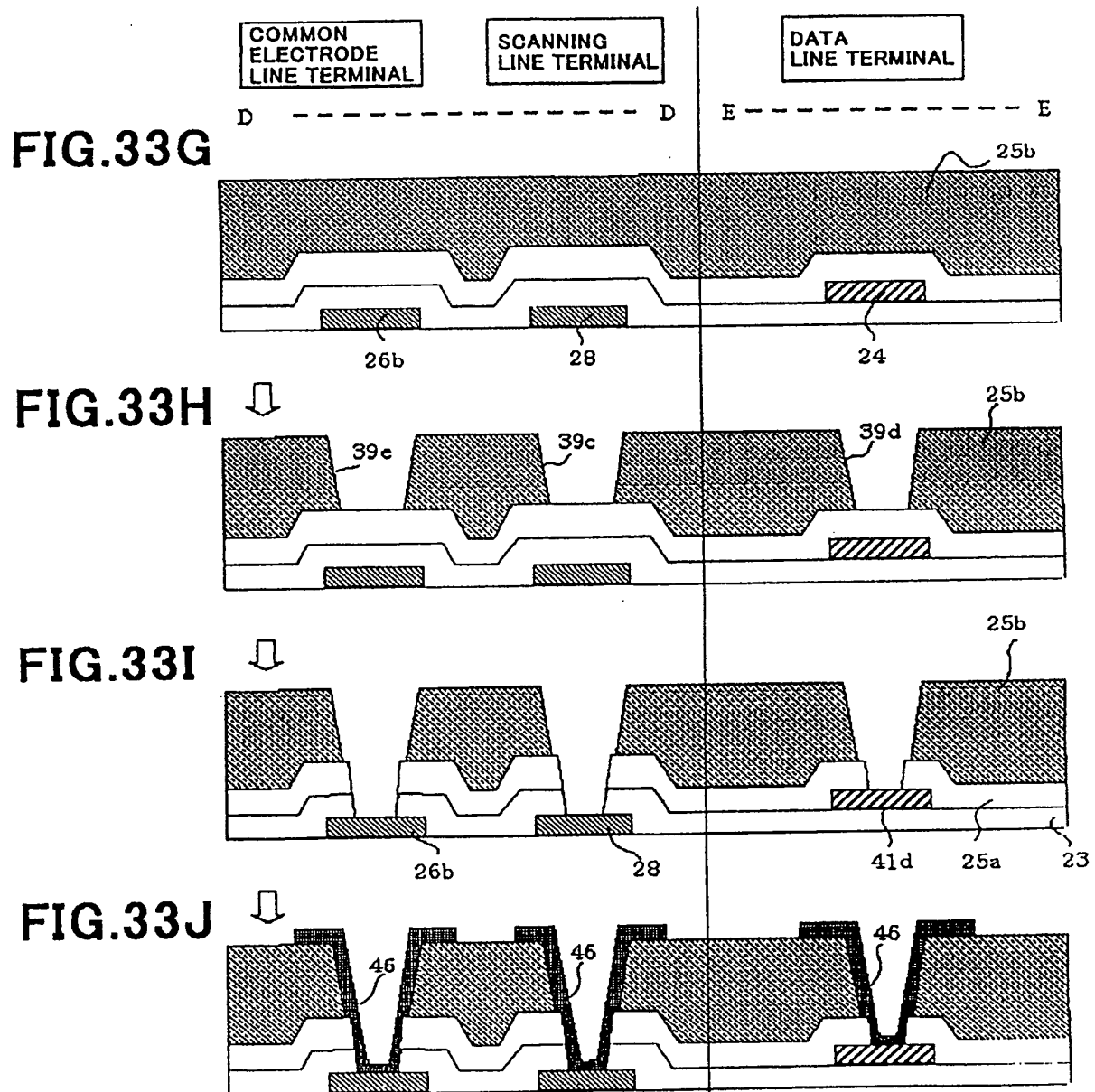
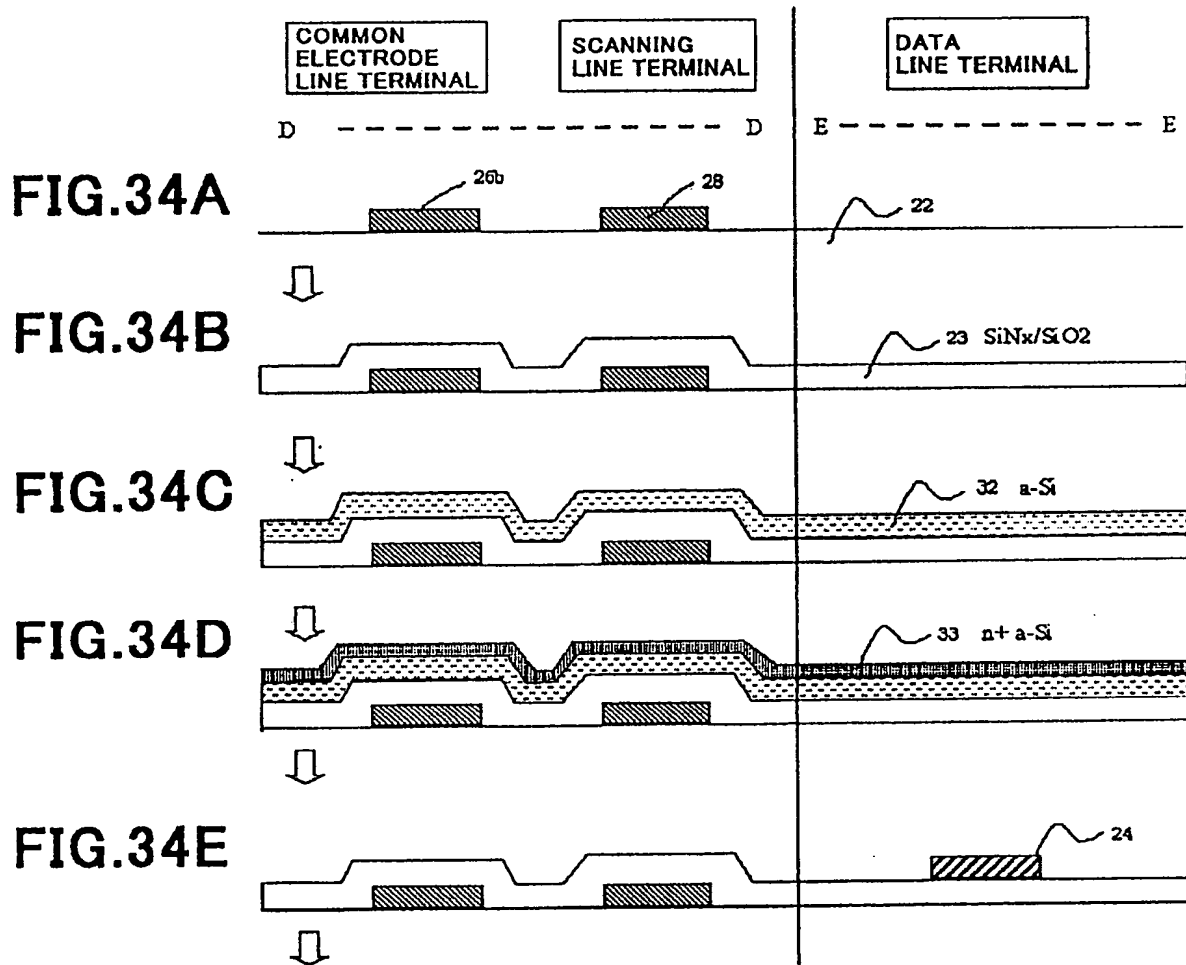


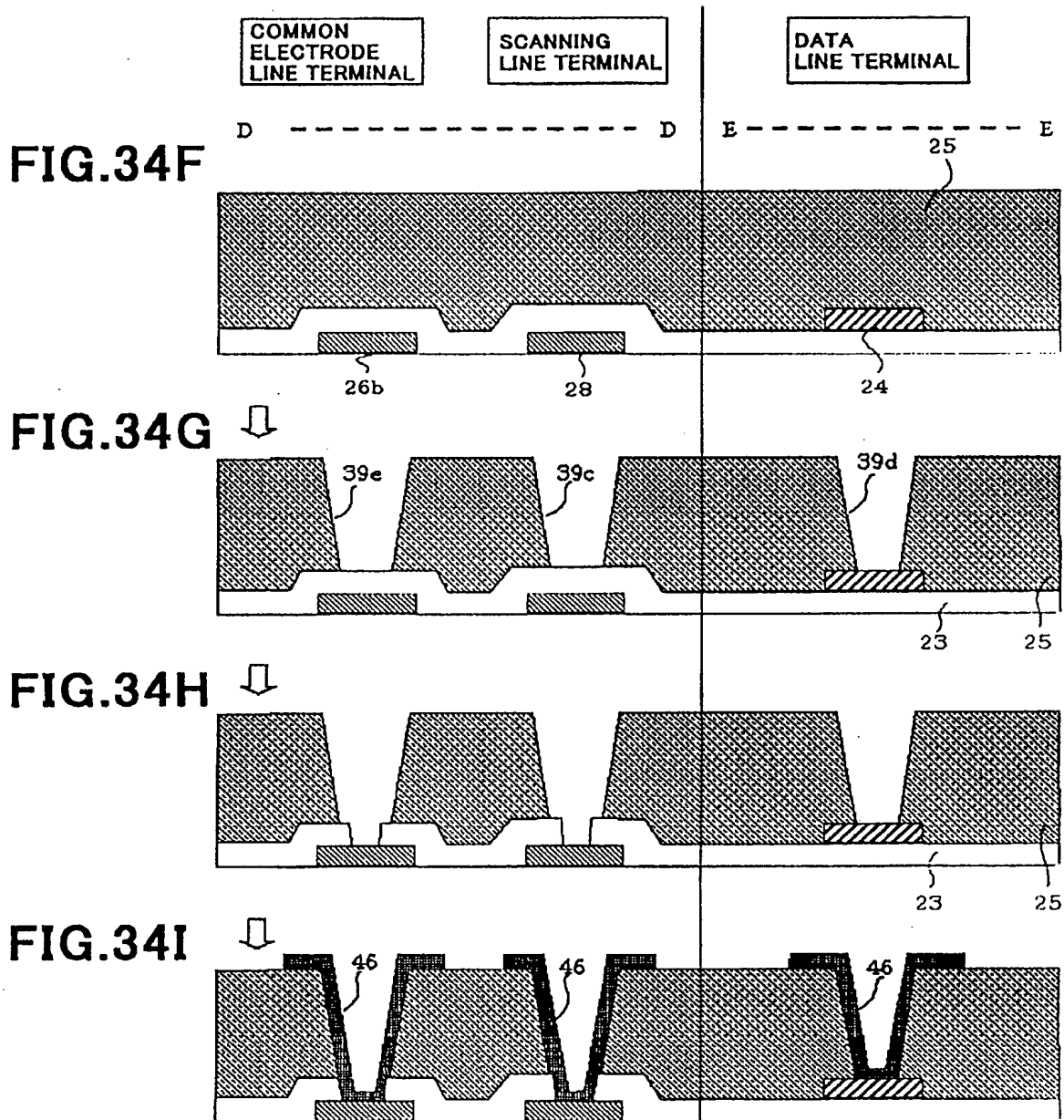
FIG.32











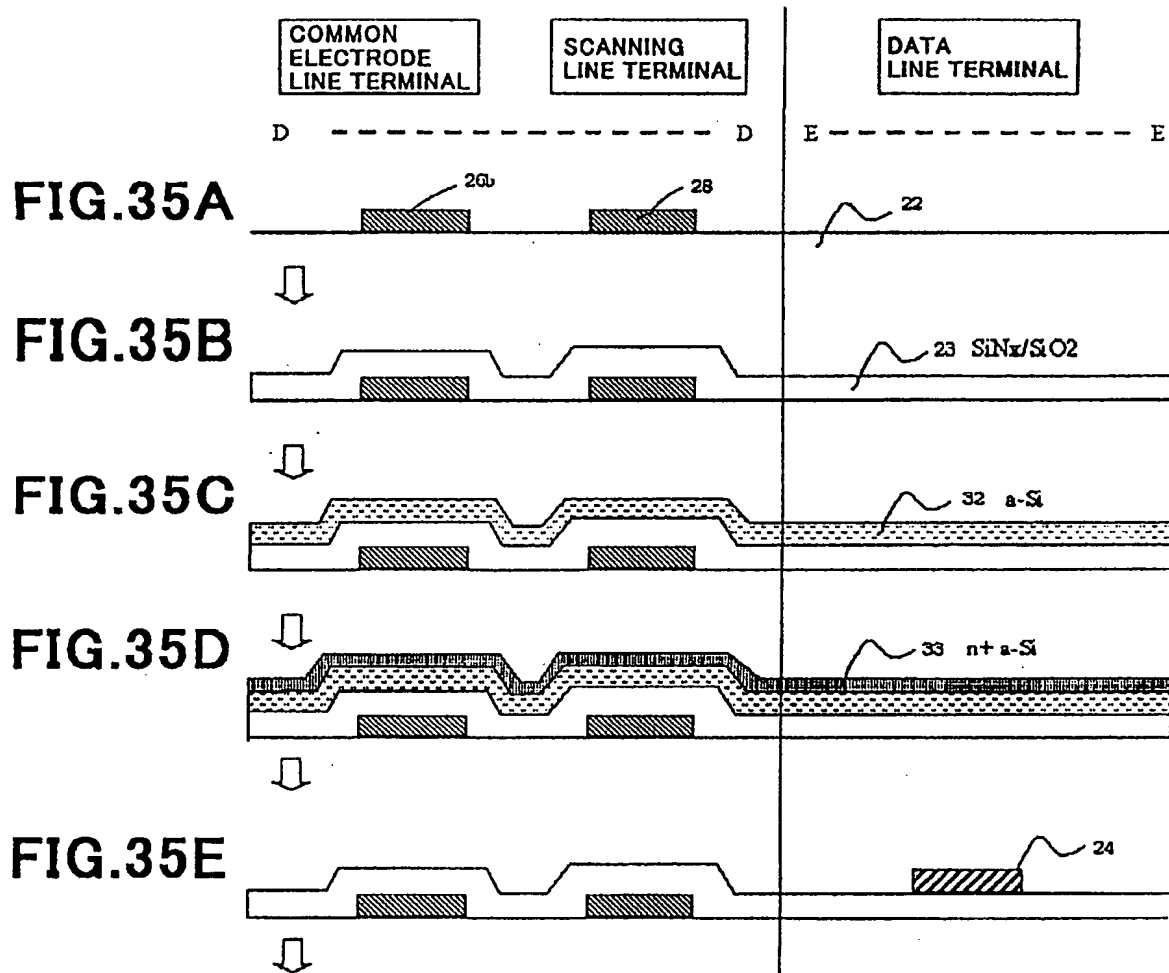


FIG.35F

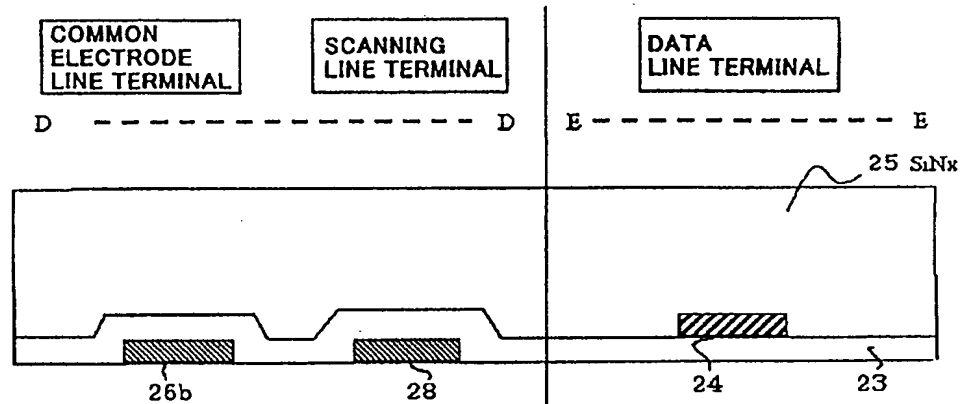


FIG.35G

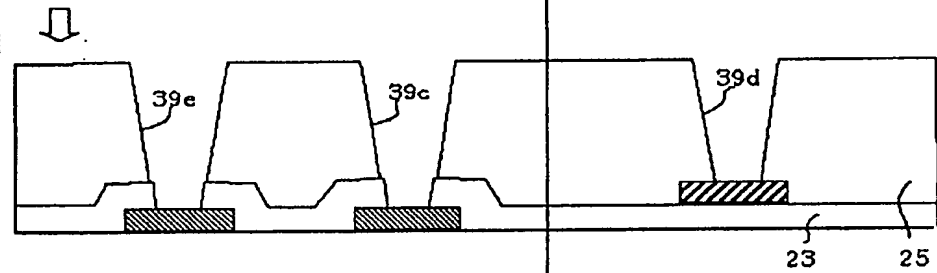


FIG.35H

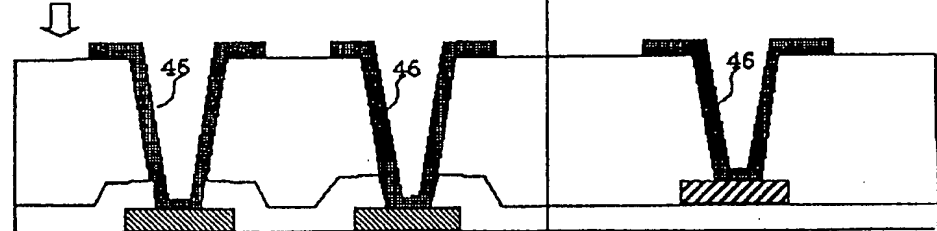
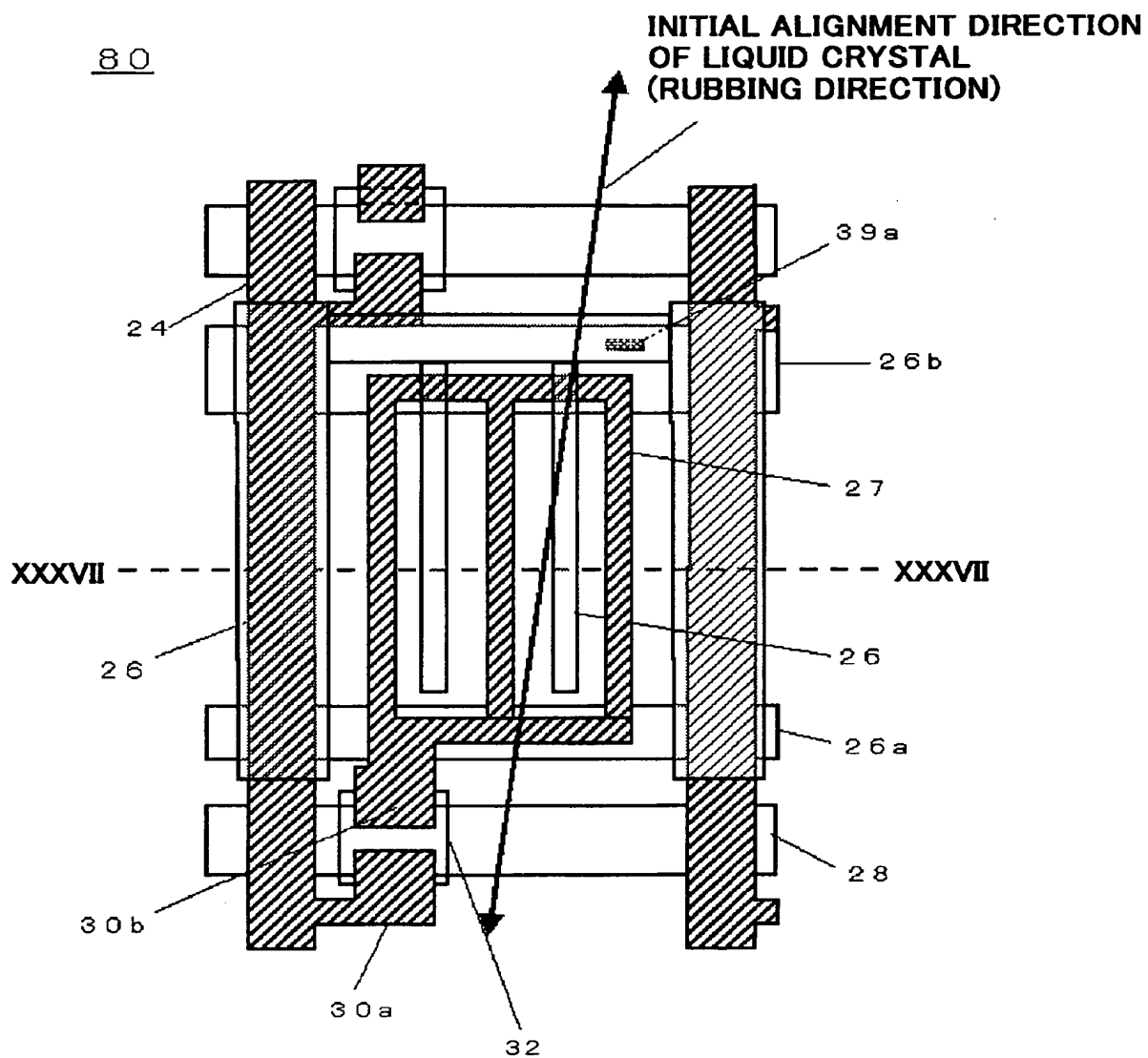


FIG.36



**FIG.37**

80

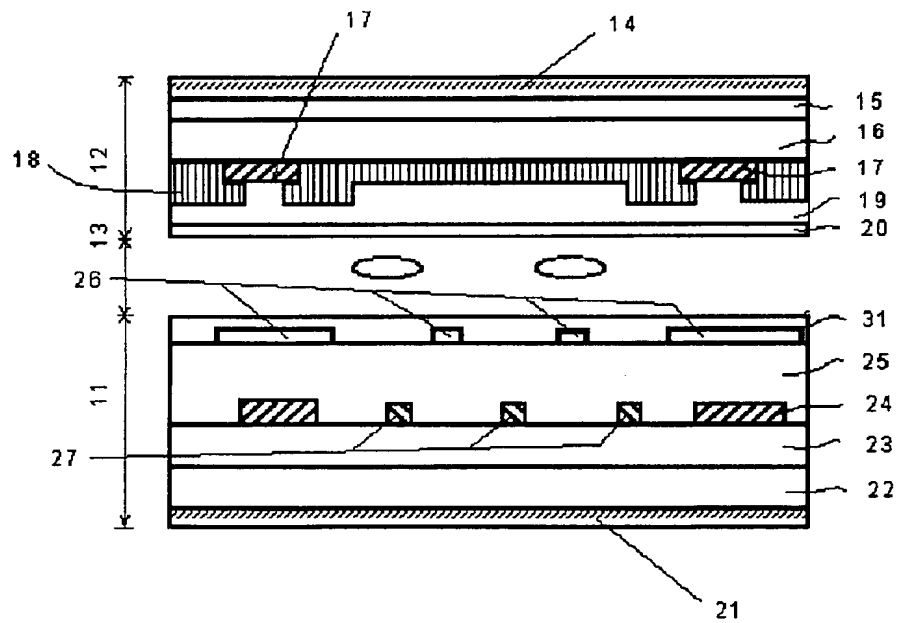


FIG.38

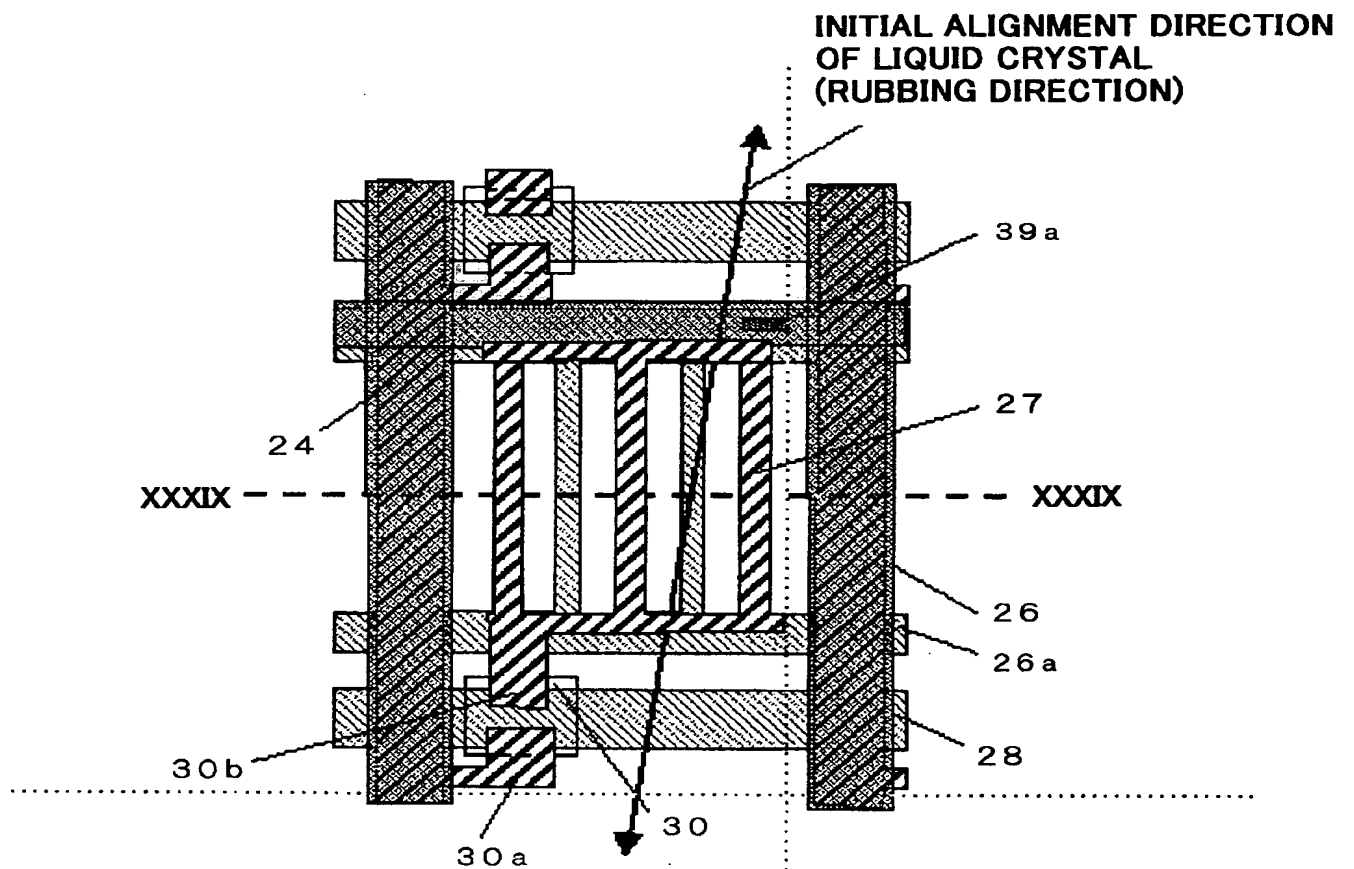
85

FIG.39

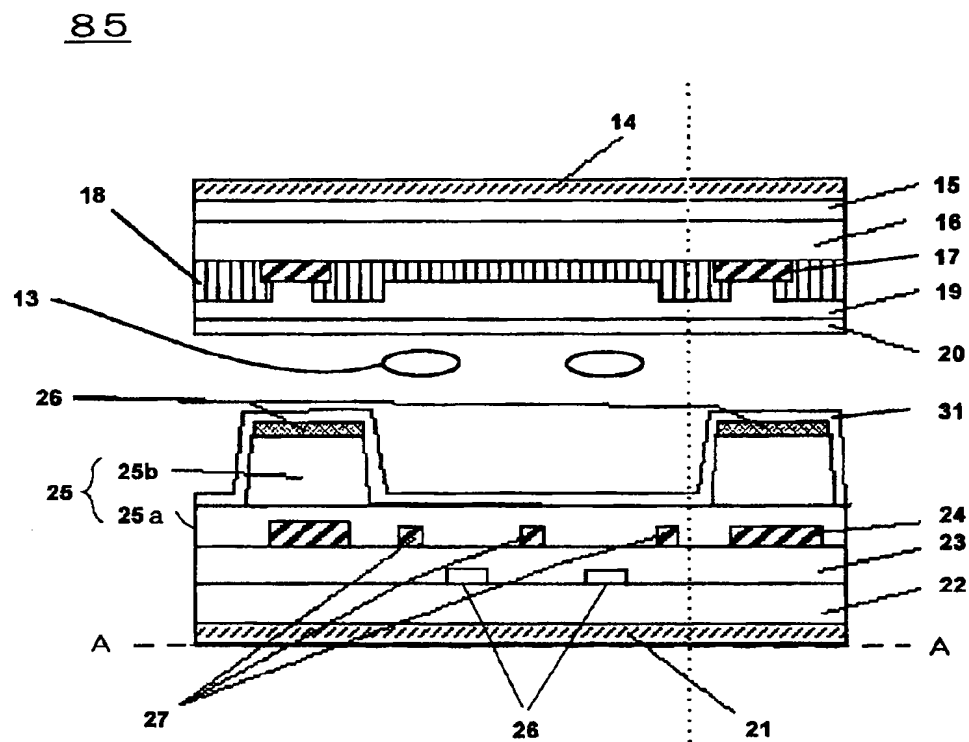


FIG.40

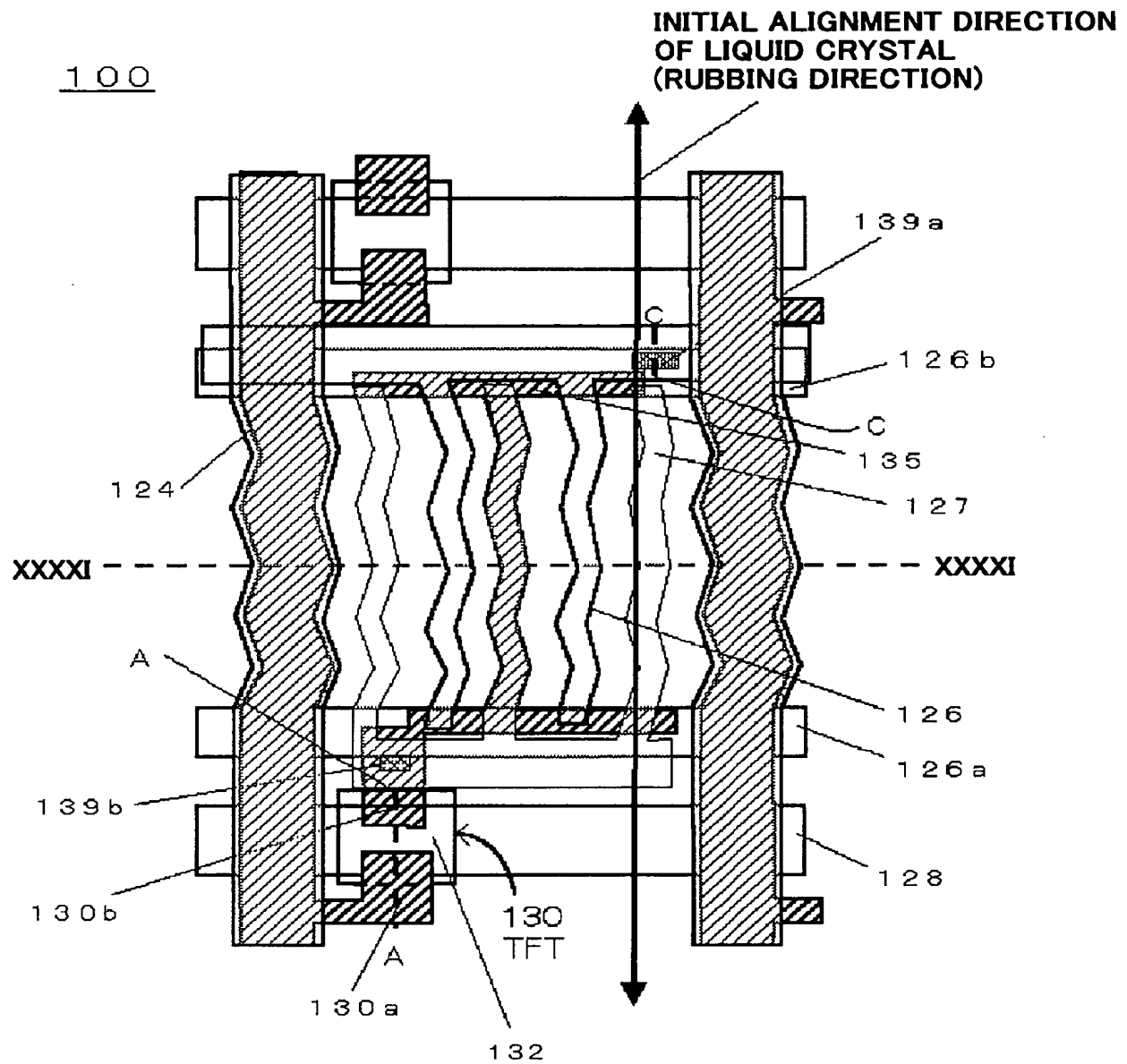


FIG.41

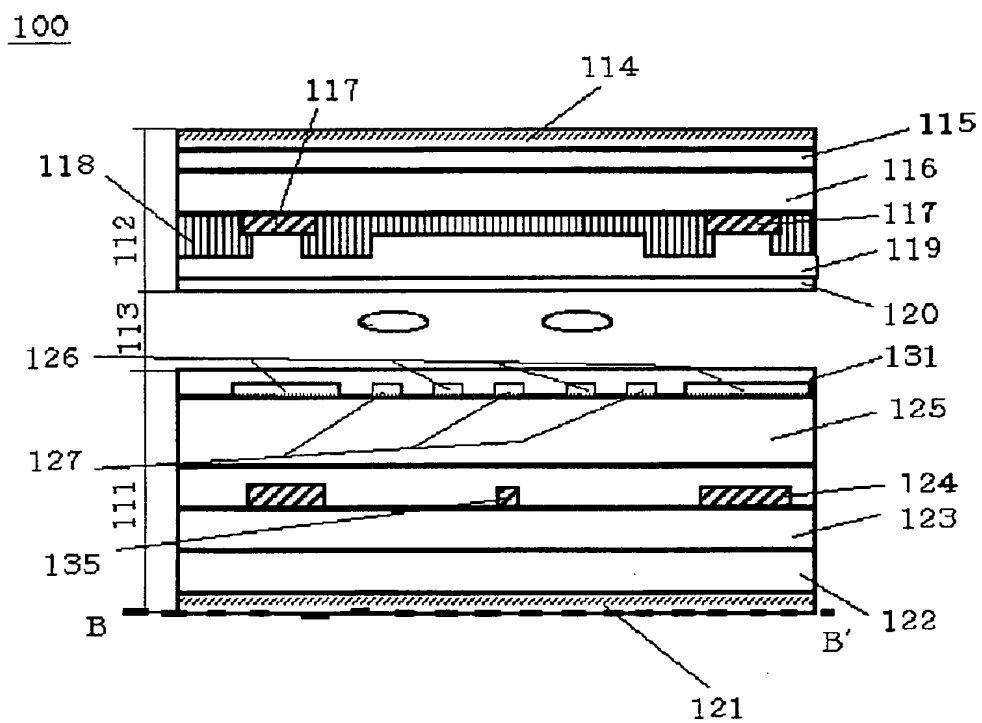


FIG.42A

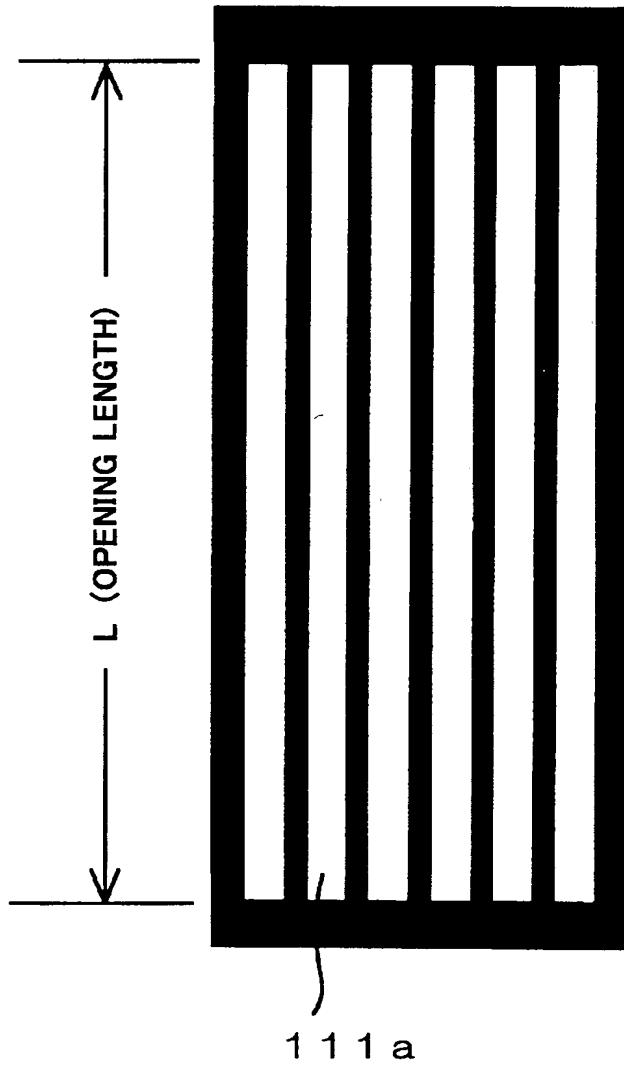
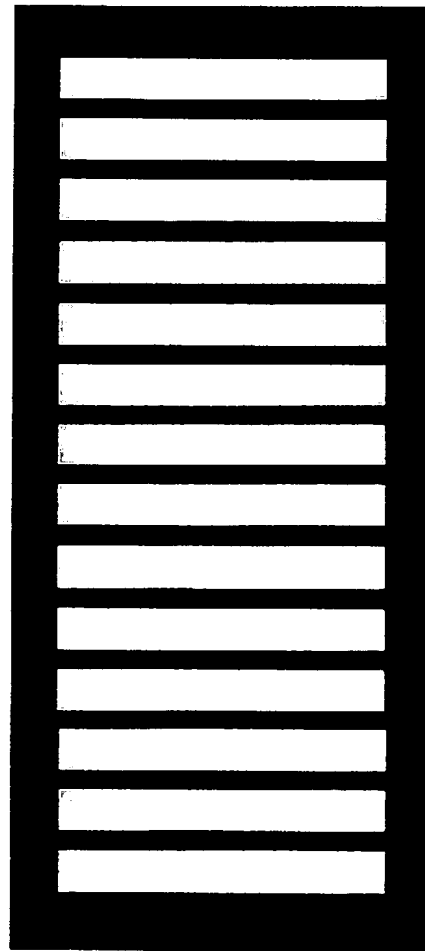
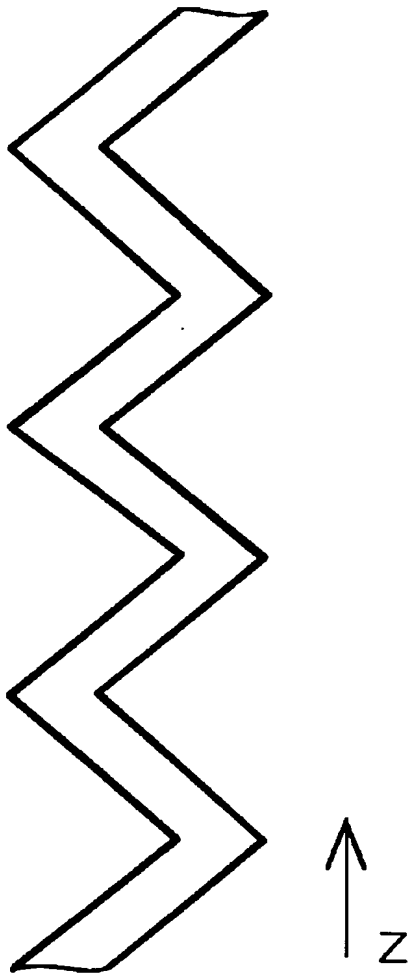


FIG.42B



**FIG.43A**



**FIG.43B**

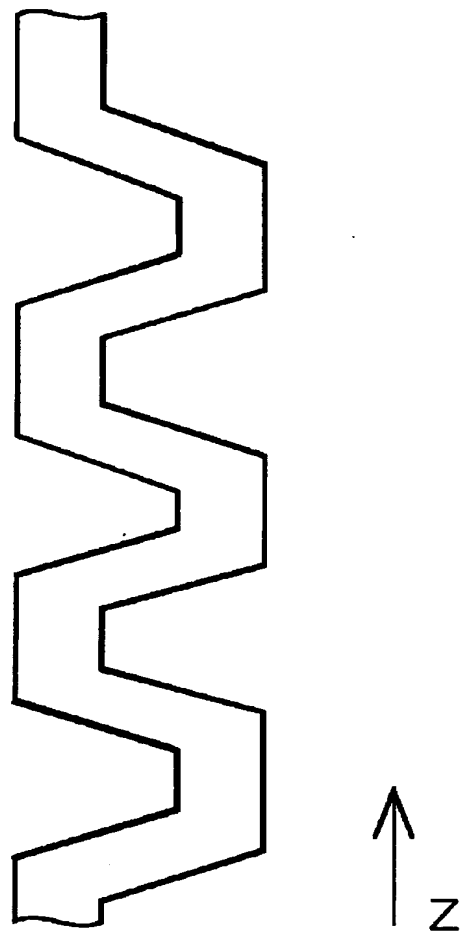


FIG.44

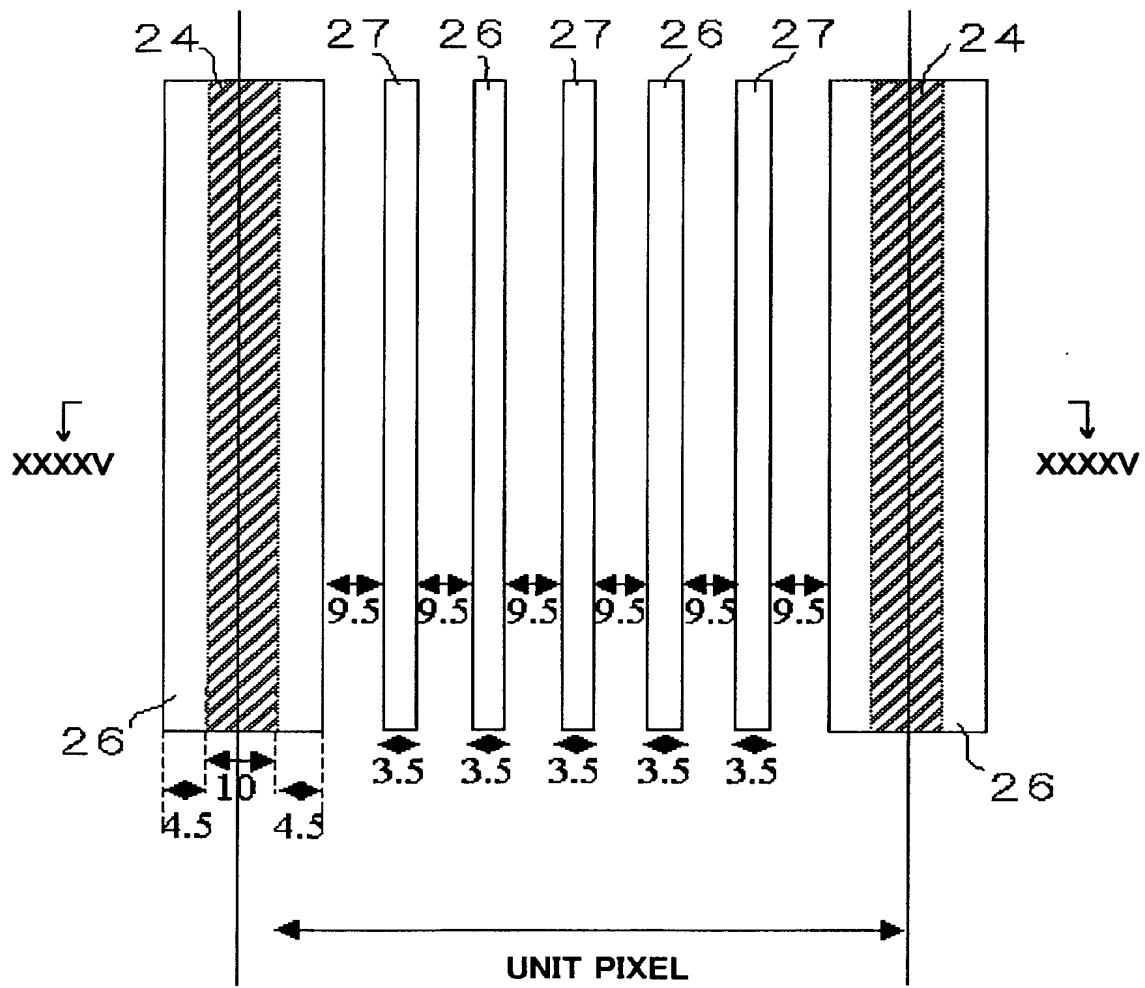
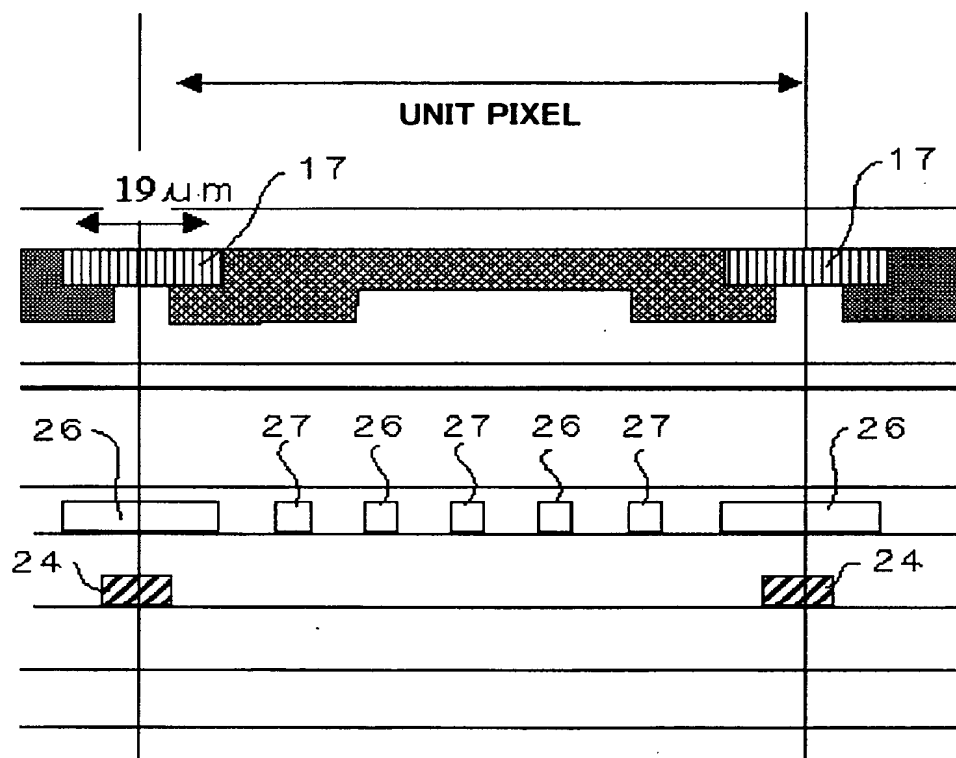
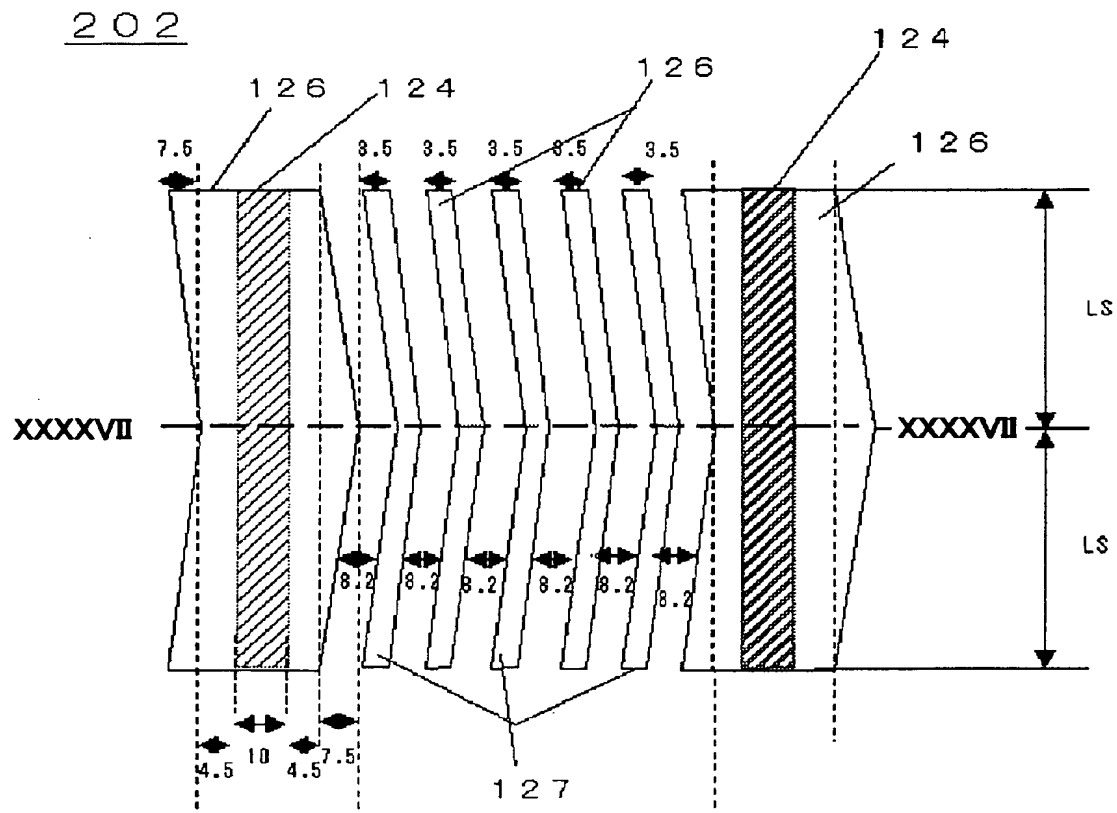
201

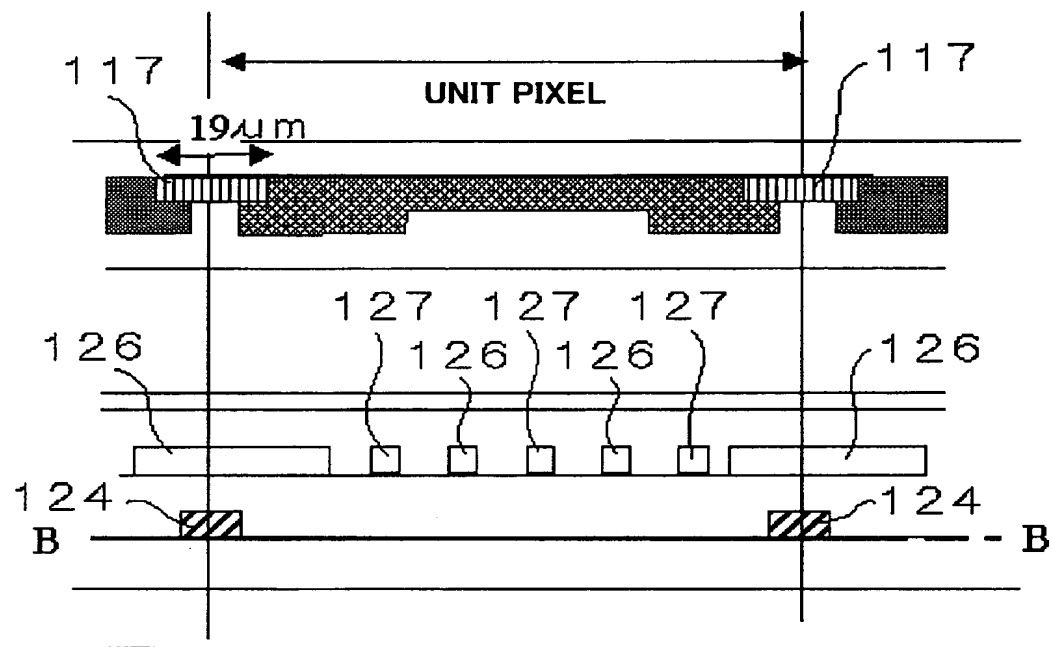
FIG.45

201

OPENING AREA =  $57 \times (\text{LONGITUDINAL LENGTH})$

FIG.46



**FIG.47**202

OPENING AREA = 49.2 x (LONGITUDINAL LENGTH)

**FIG.48**

203

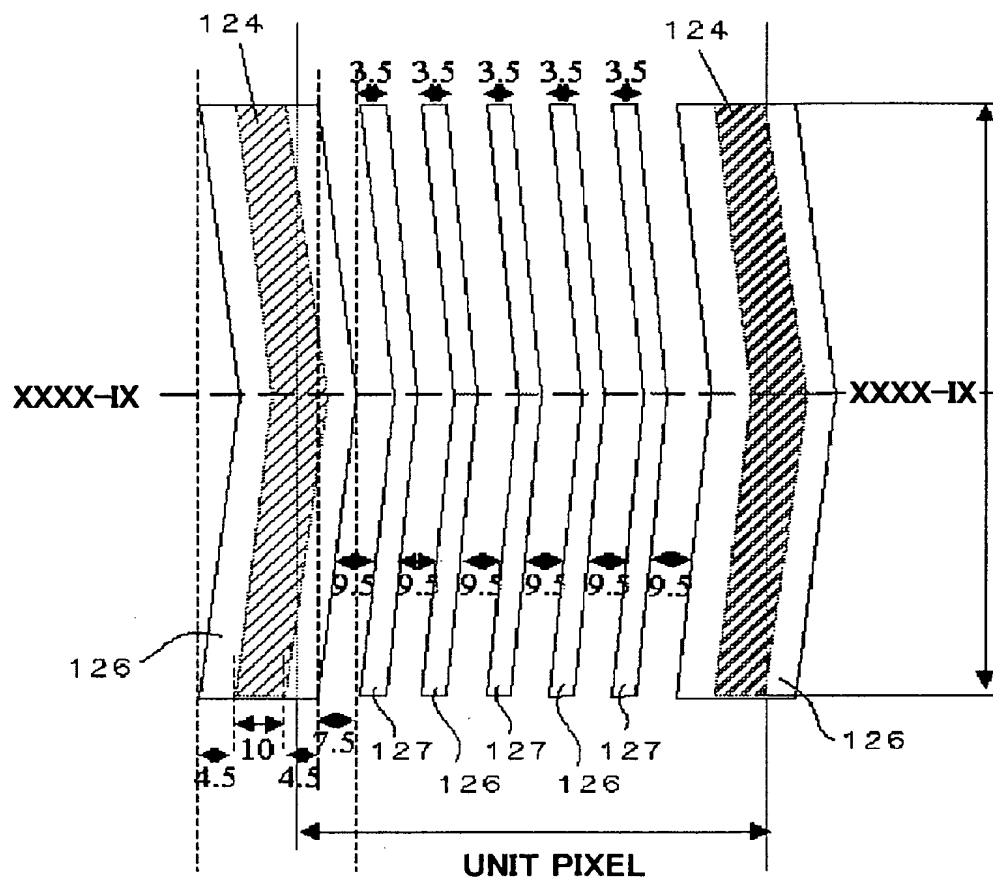


FIG.49

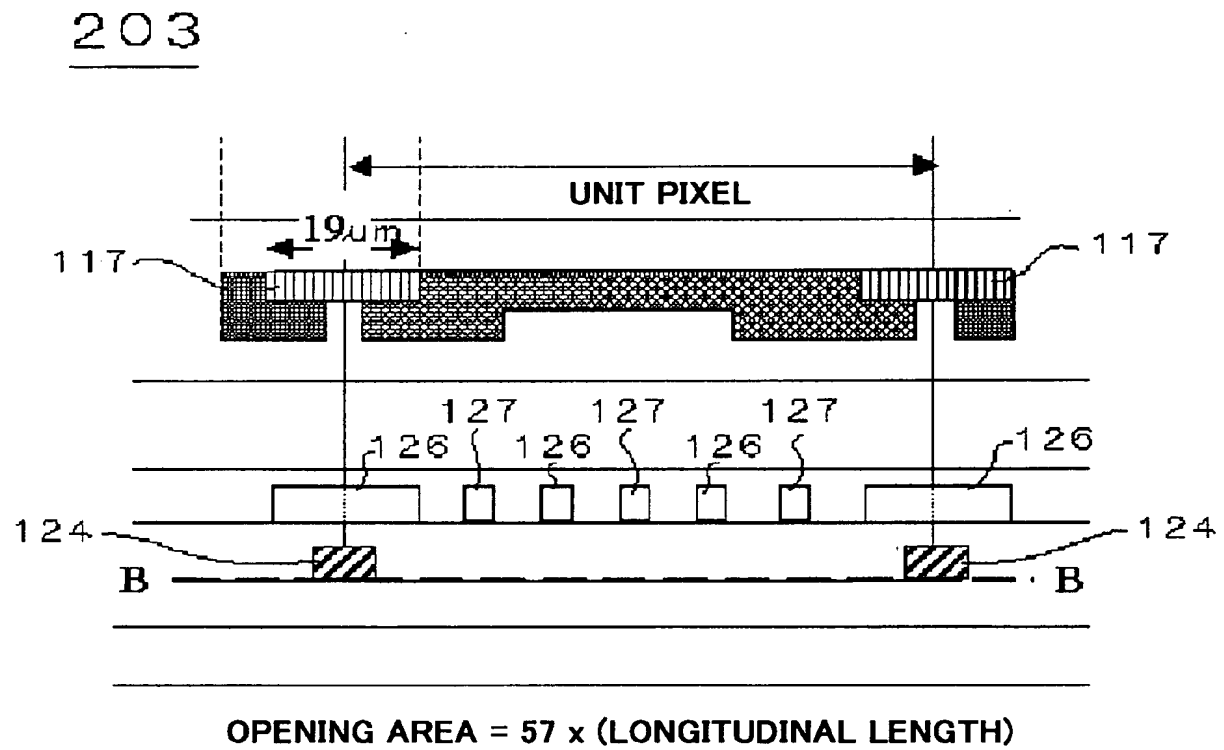
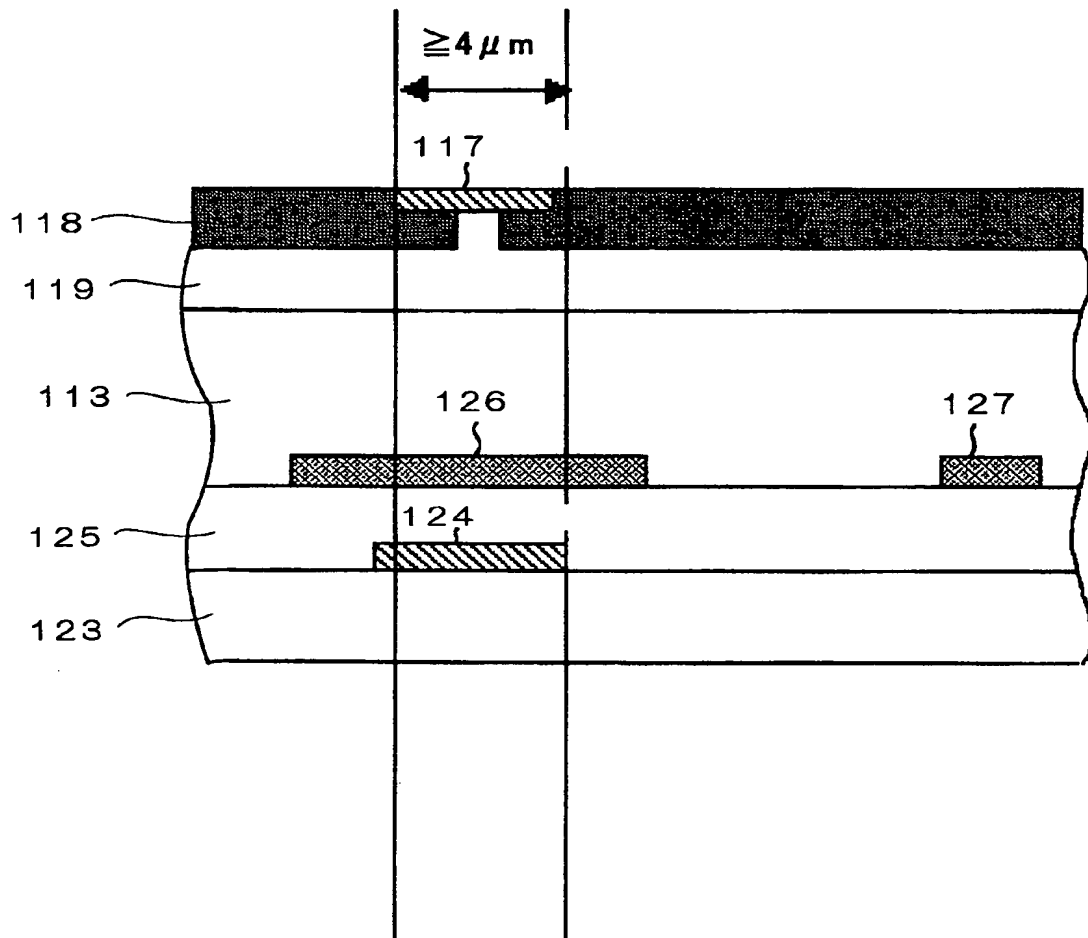


FIG.50



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FIG.51

WIDTH OF DATA LINE :  $10\mu m$   
INFLECTION NO. : 7

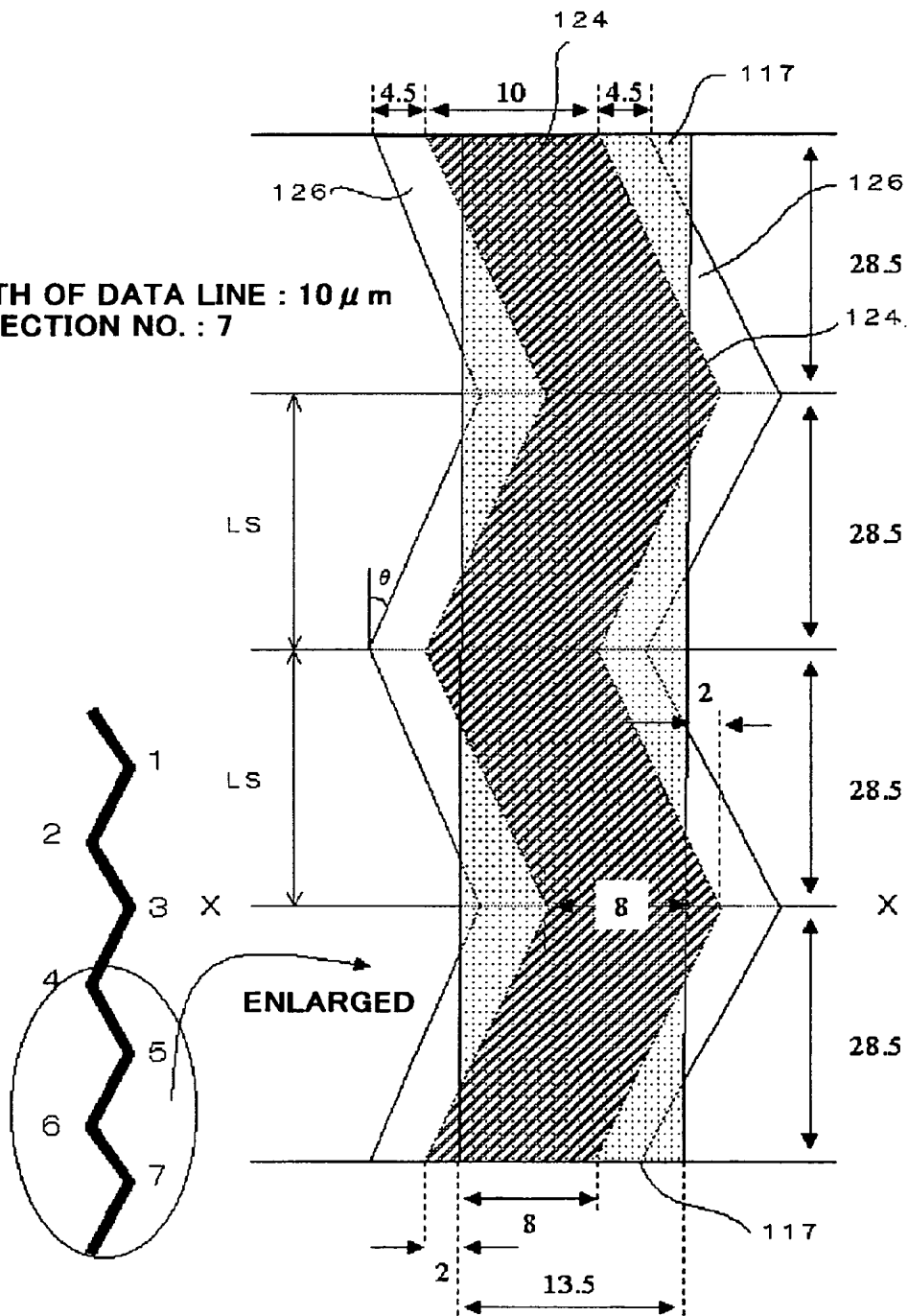


FIG.52

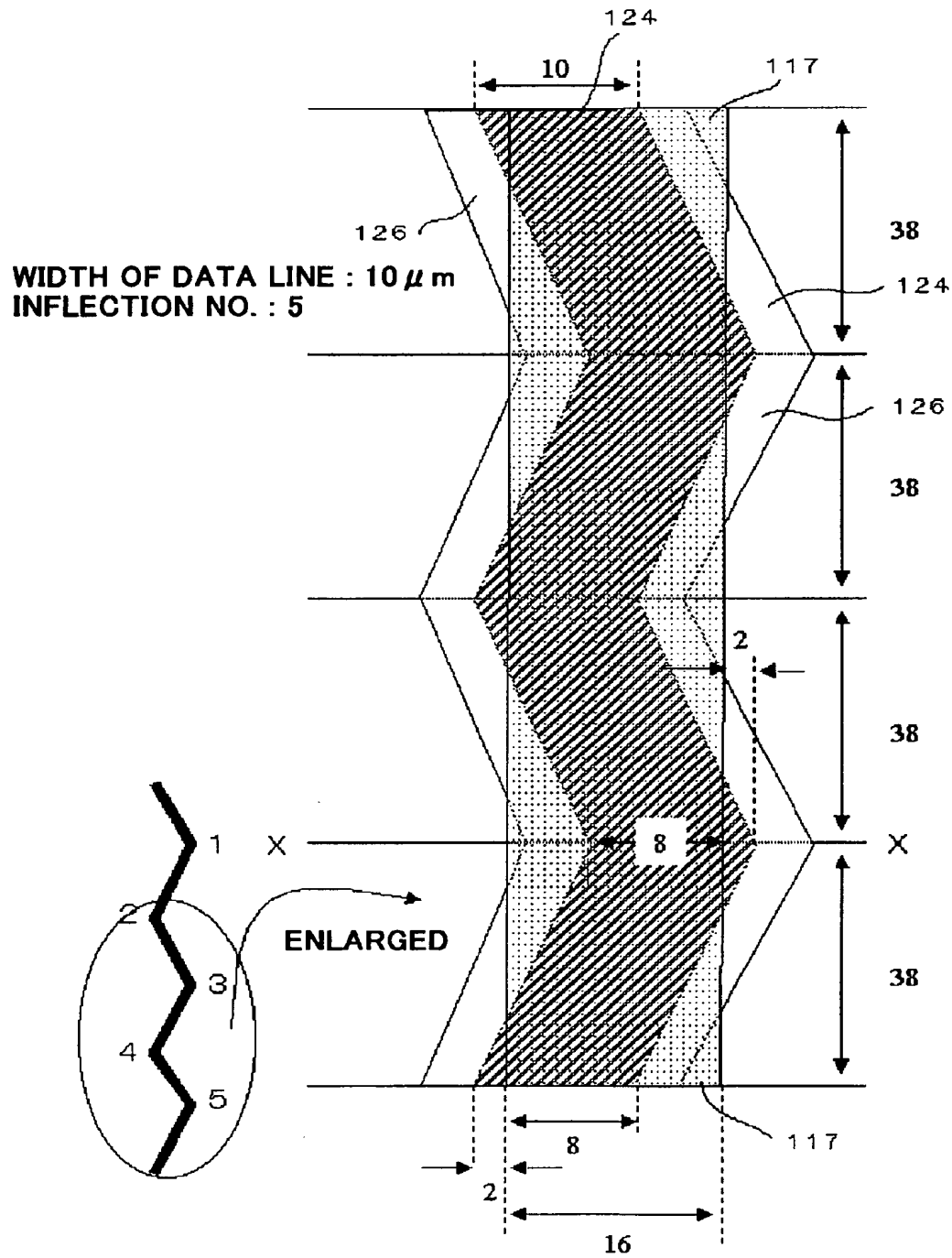


FIG.53

## MINIMUM WIDTH OF BM

$$D_{min} = D + LS \times \tan \theta - (D-8) \times 2$$

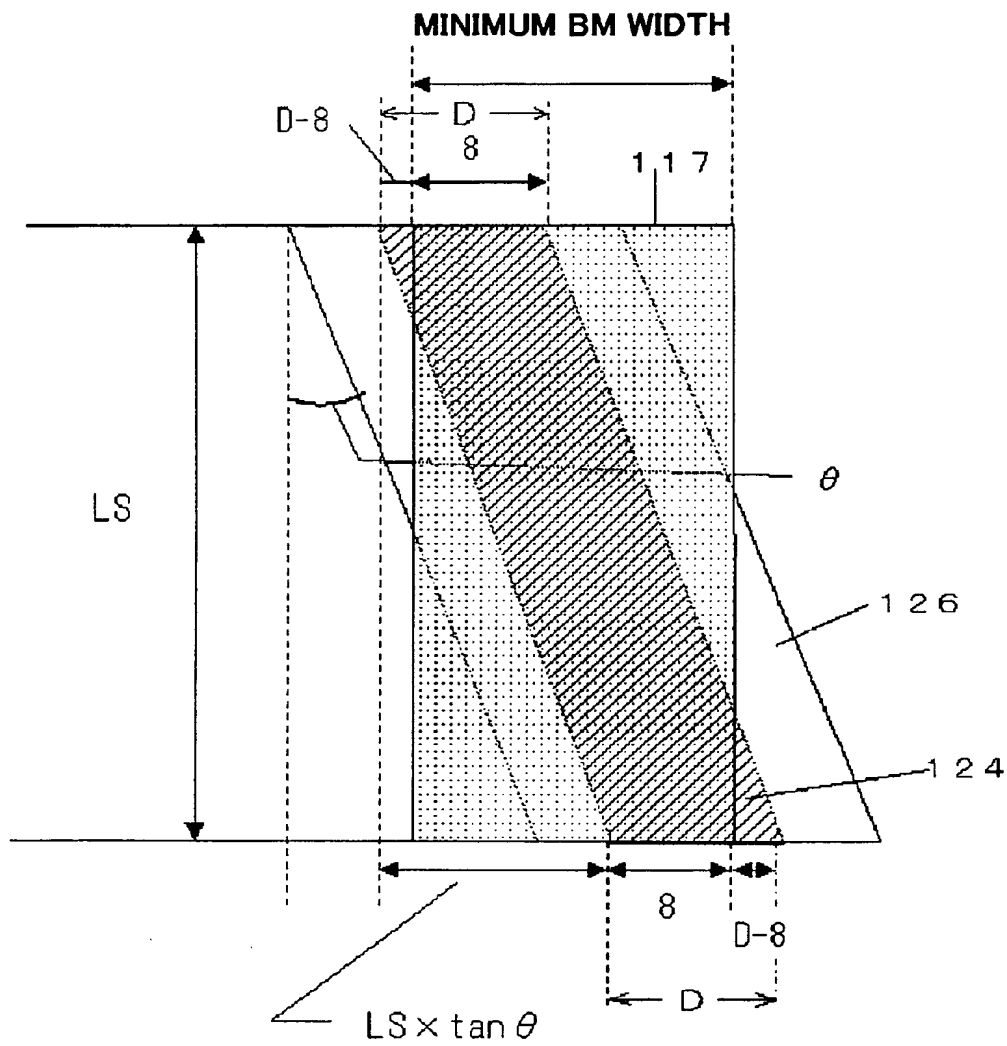
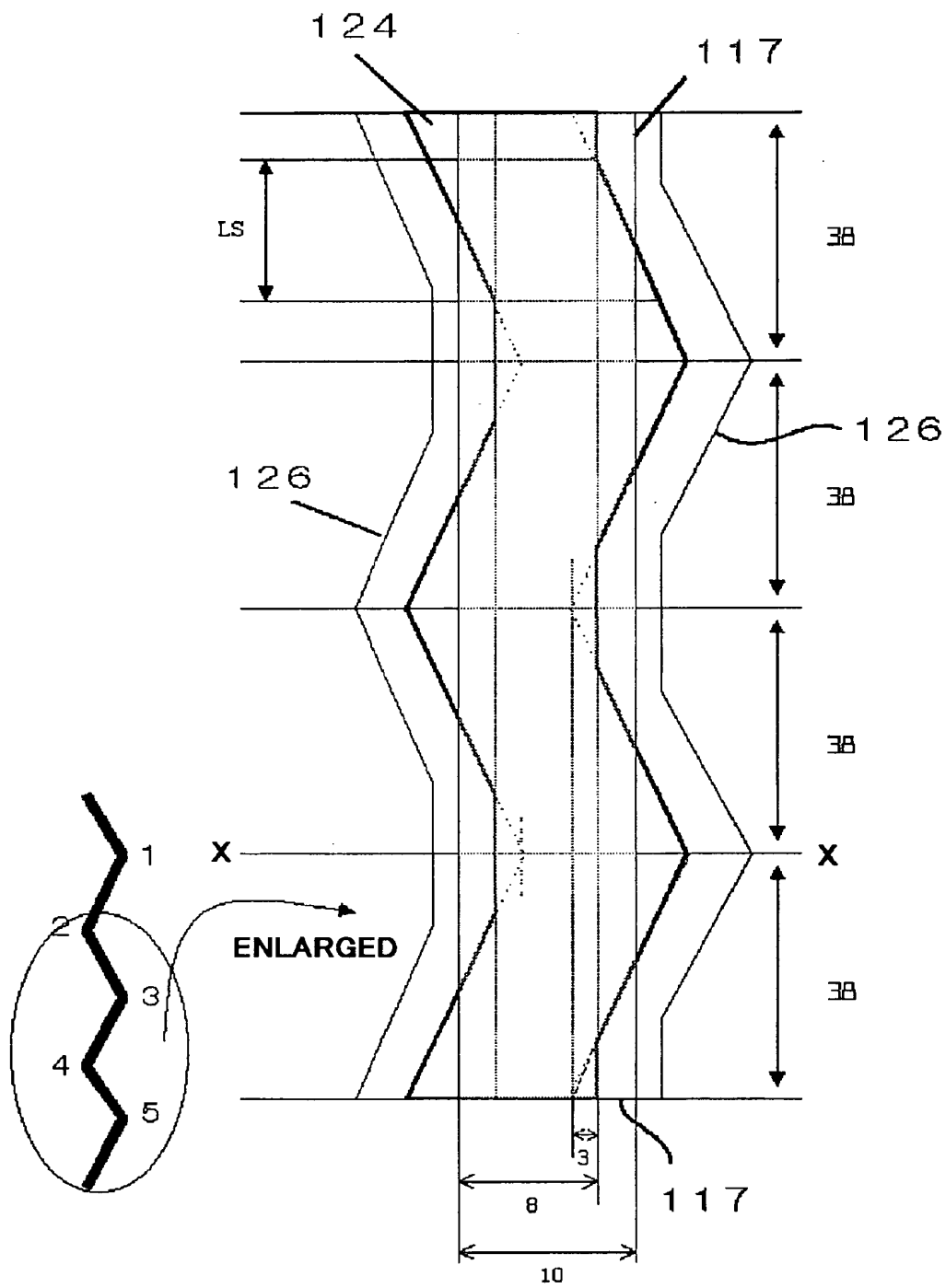
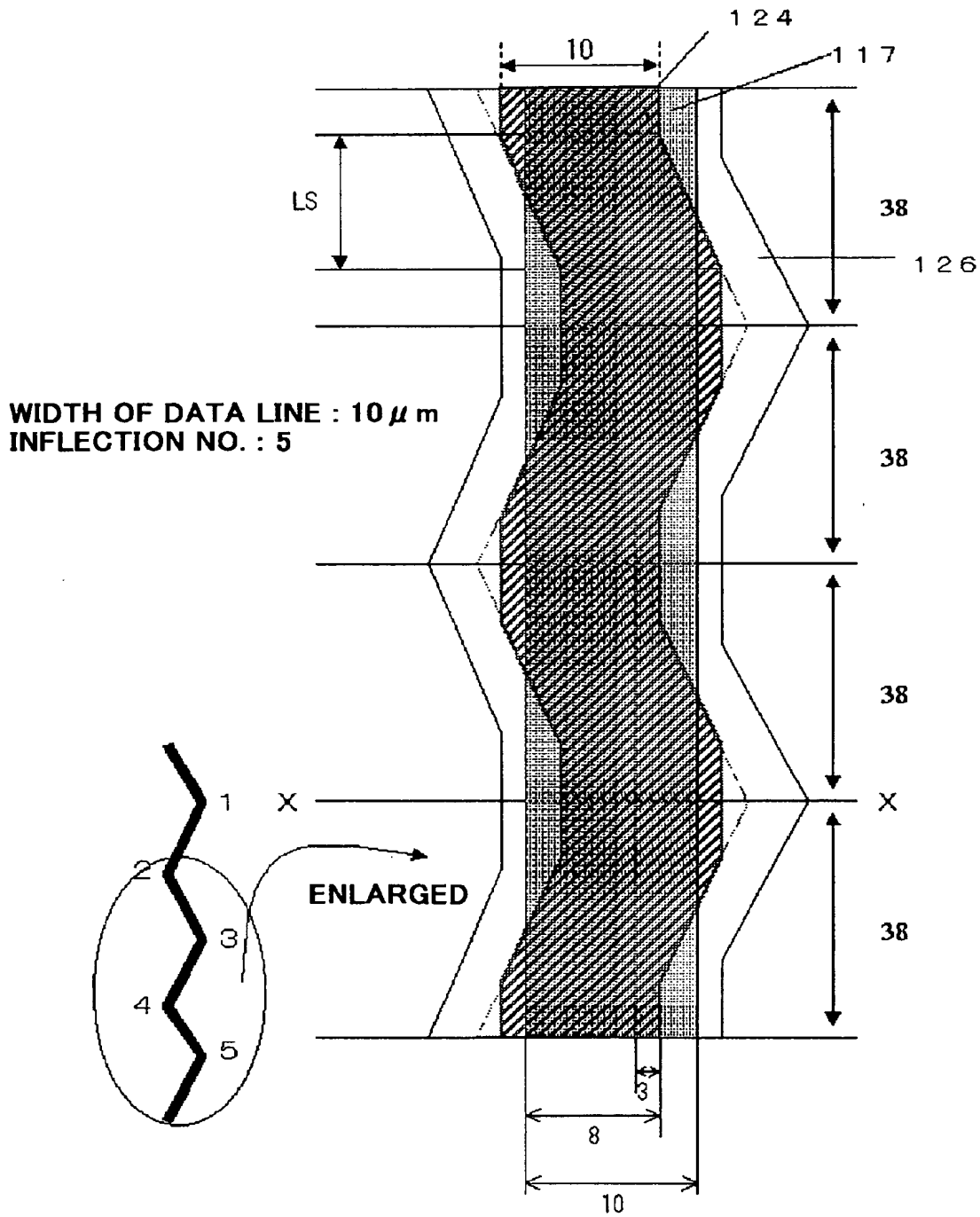


FIG. 54



**FIG.55**



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**FIG. 56**

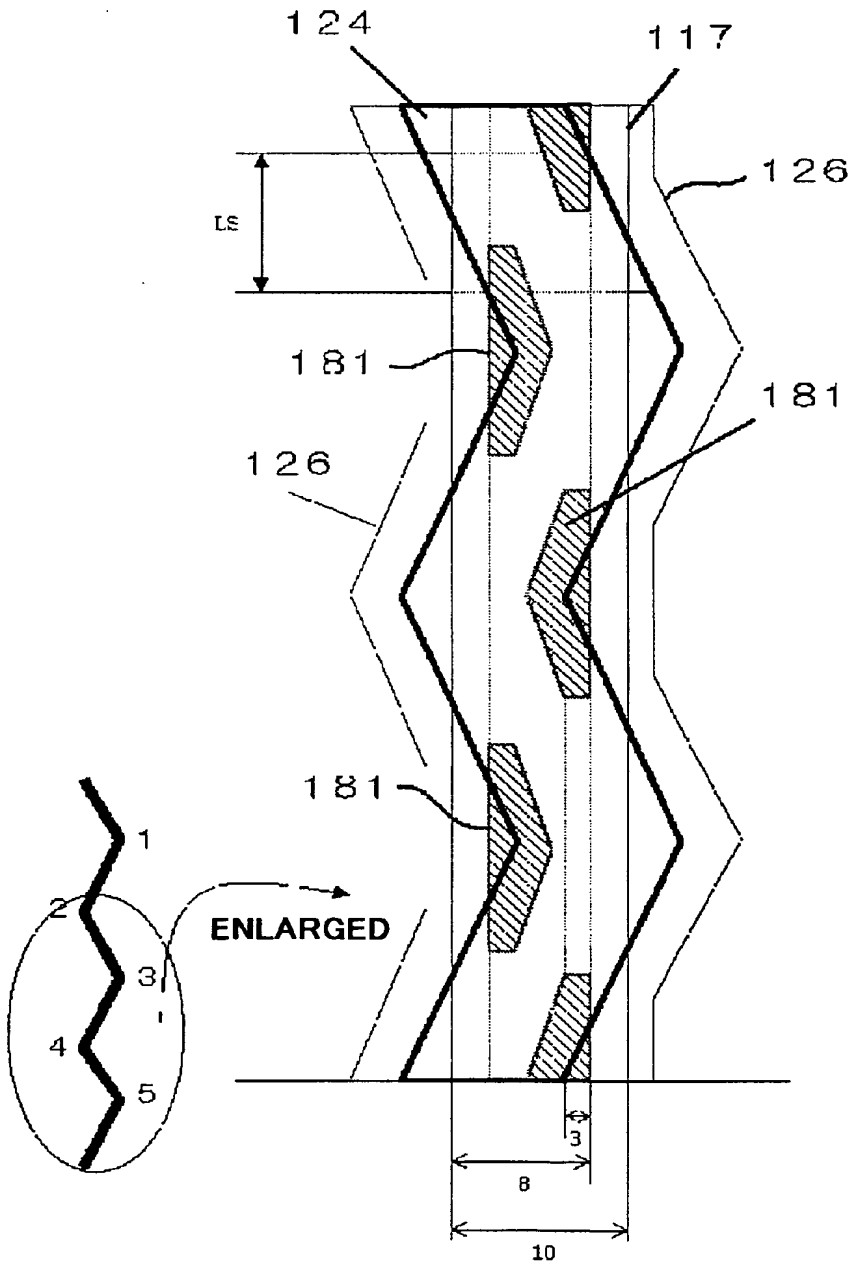
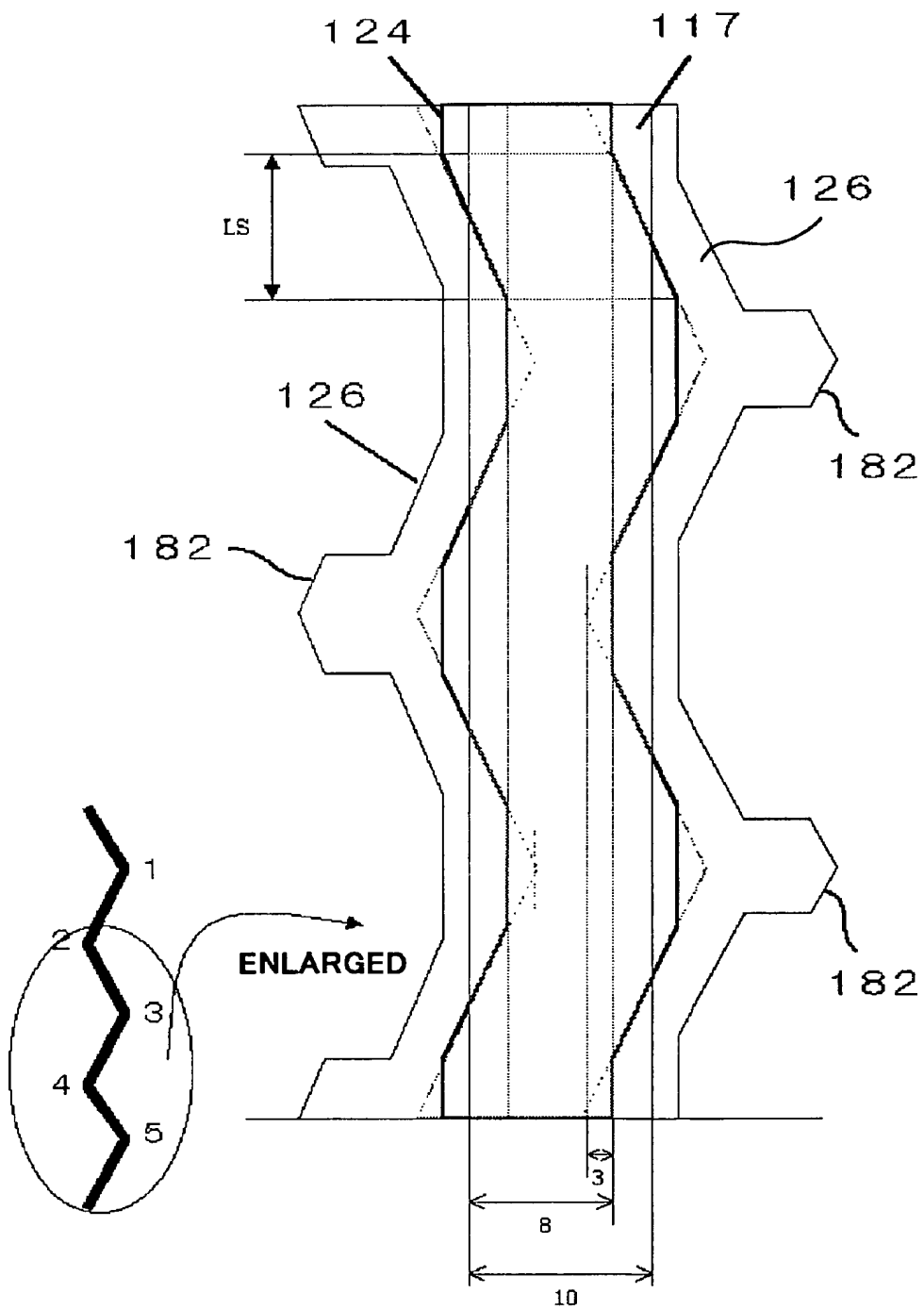
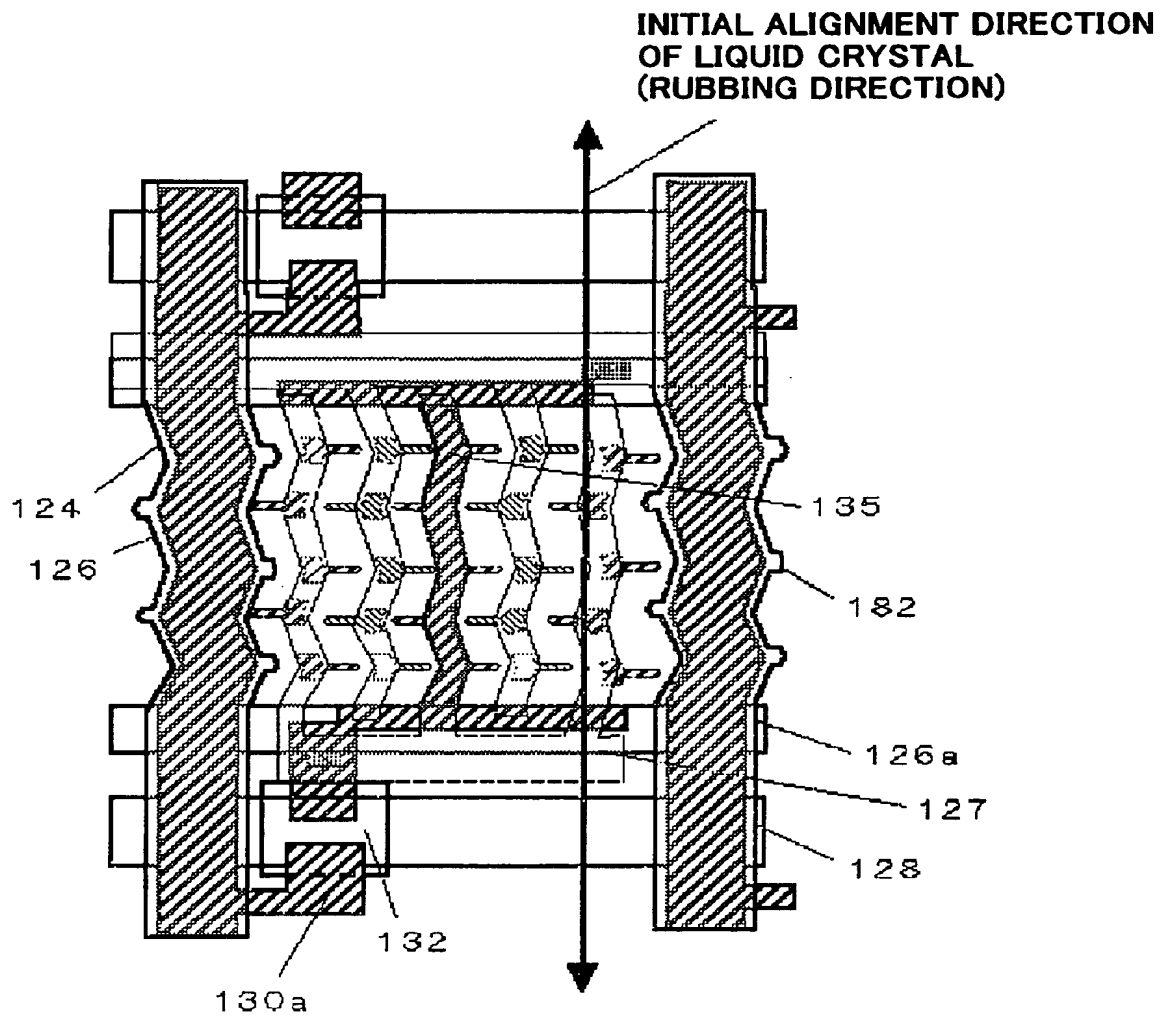


FIG.57



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FIG.58



**FIG.59**

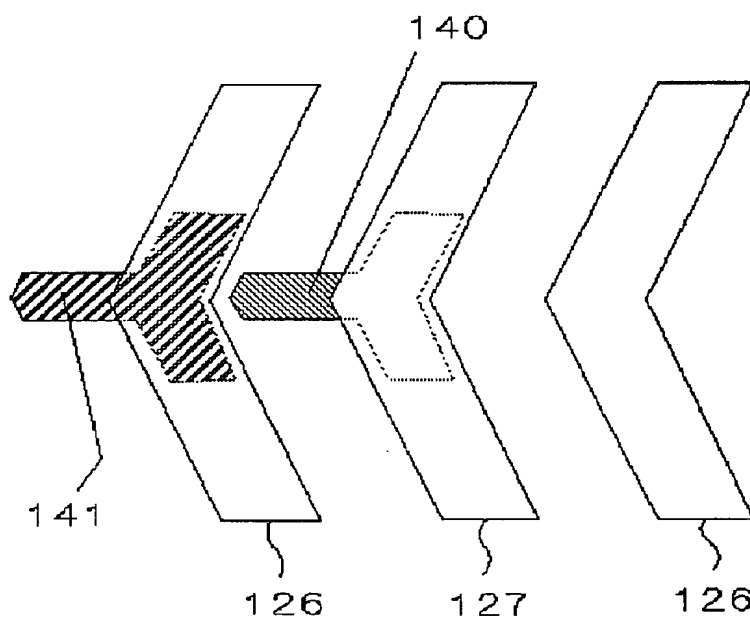


FIG. 60

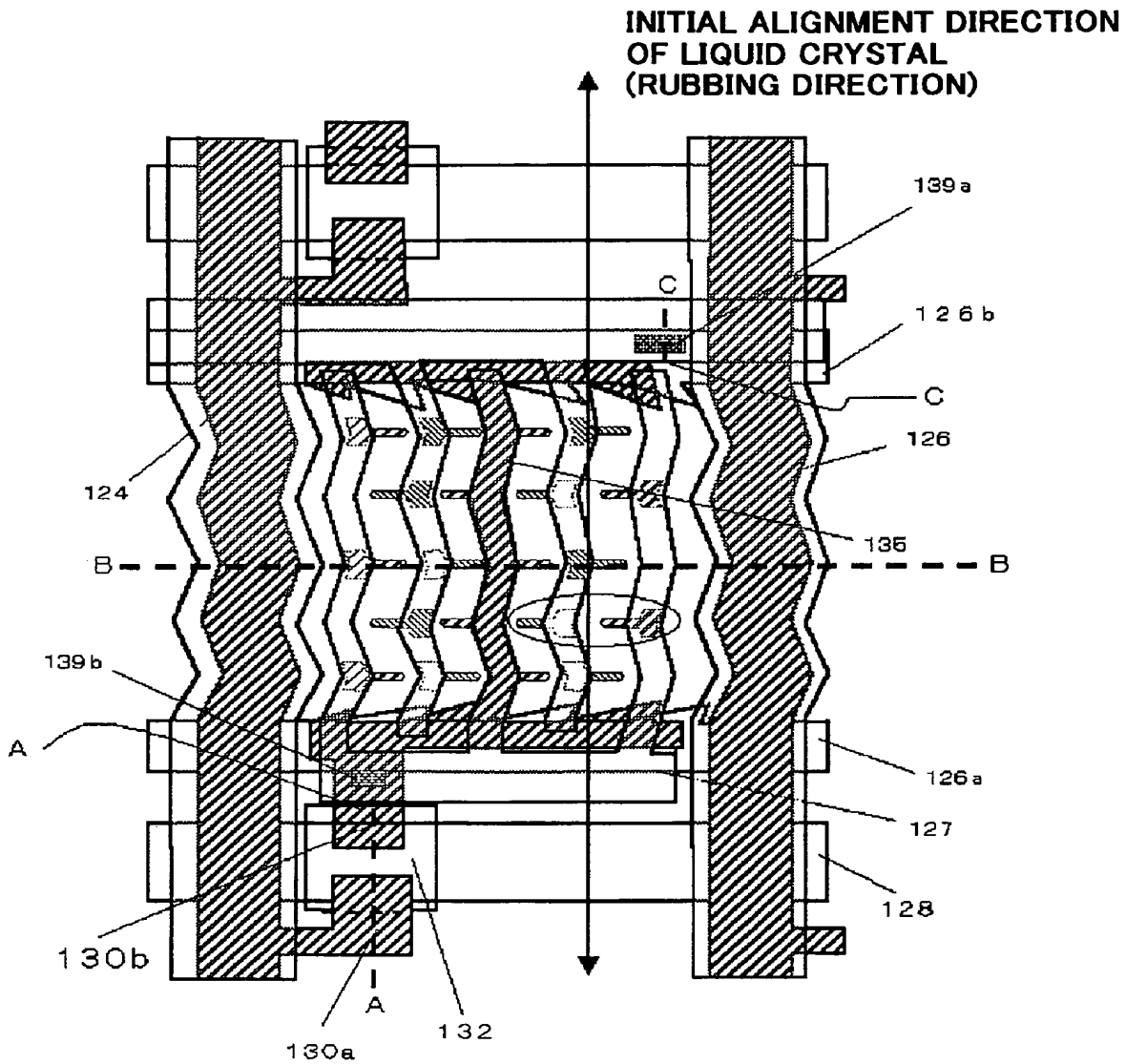
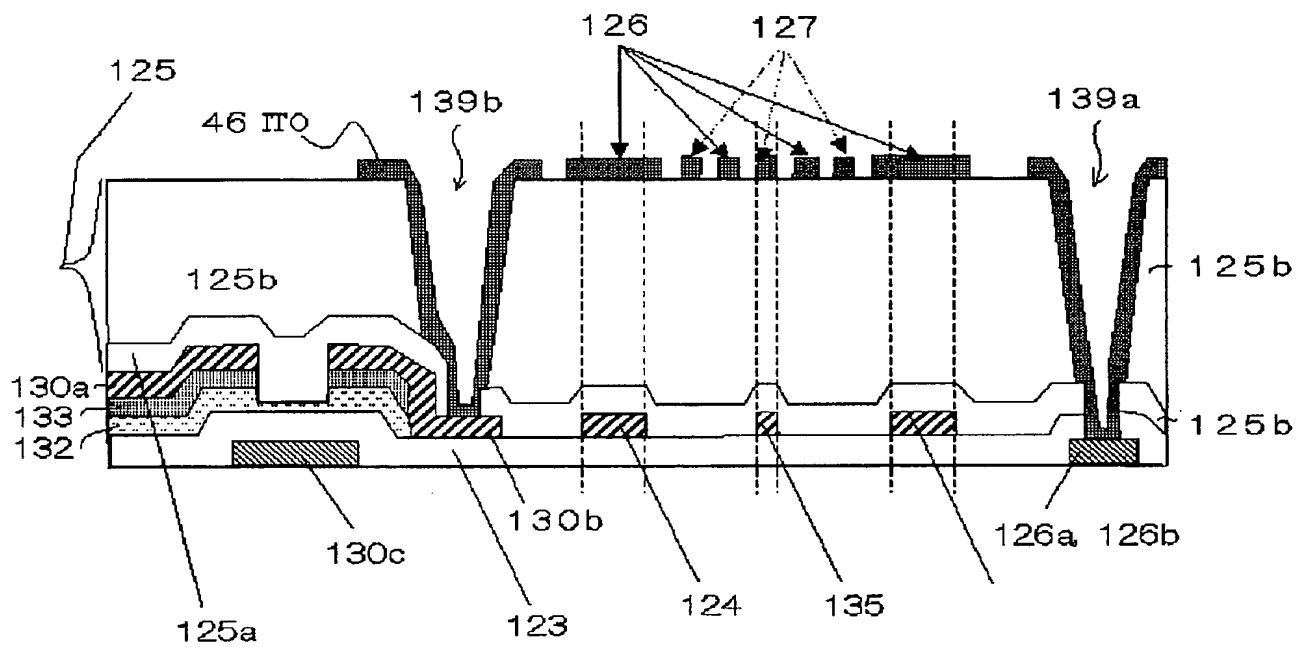
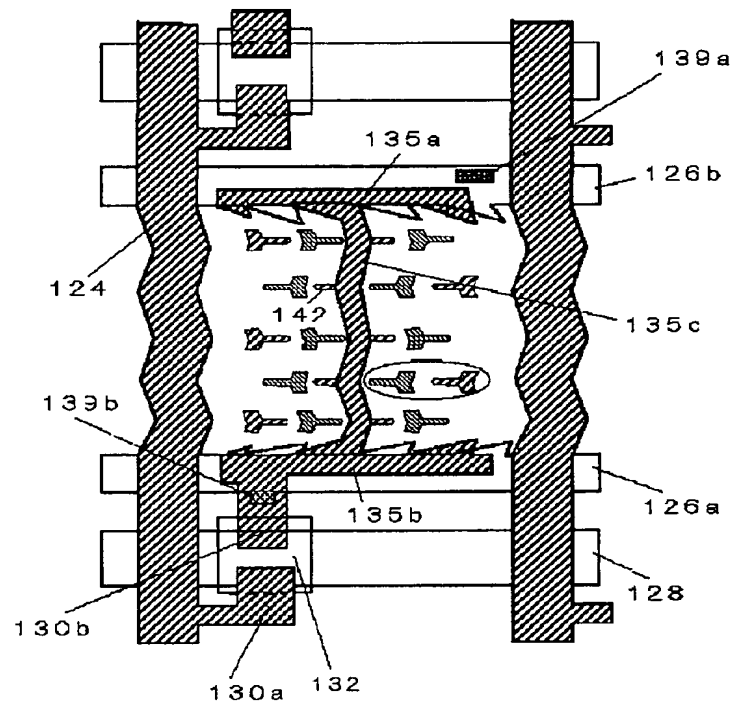


FIG.61



TFT REGION	PIXEL REGION	CONTACT HOLE REGION
(A-A)	(B-B)	(C-C)

**FIG.62A**LAYERS OTHER  
THAN ITO LAYER

OVERLAPPED

**FIG.62B**

ITO LAYER

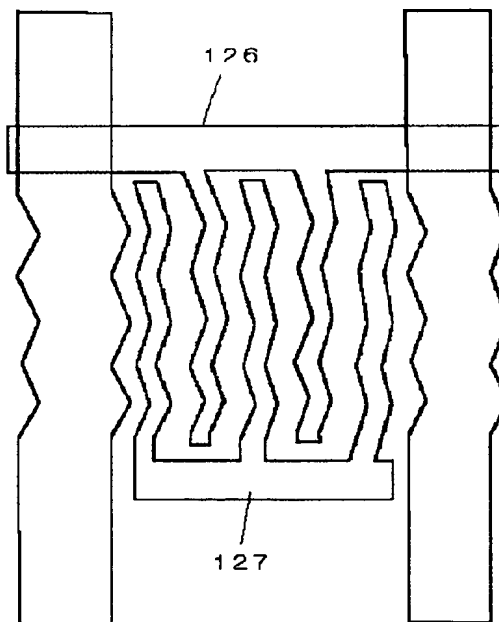


FIG. 65

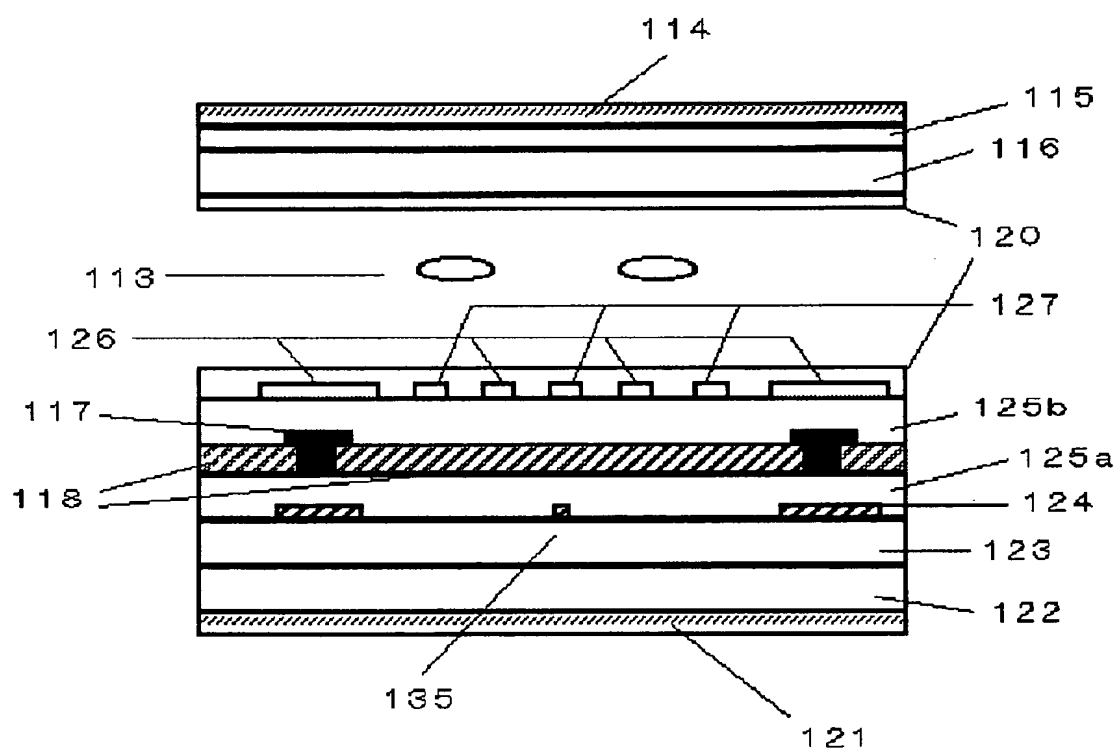


FIG.66

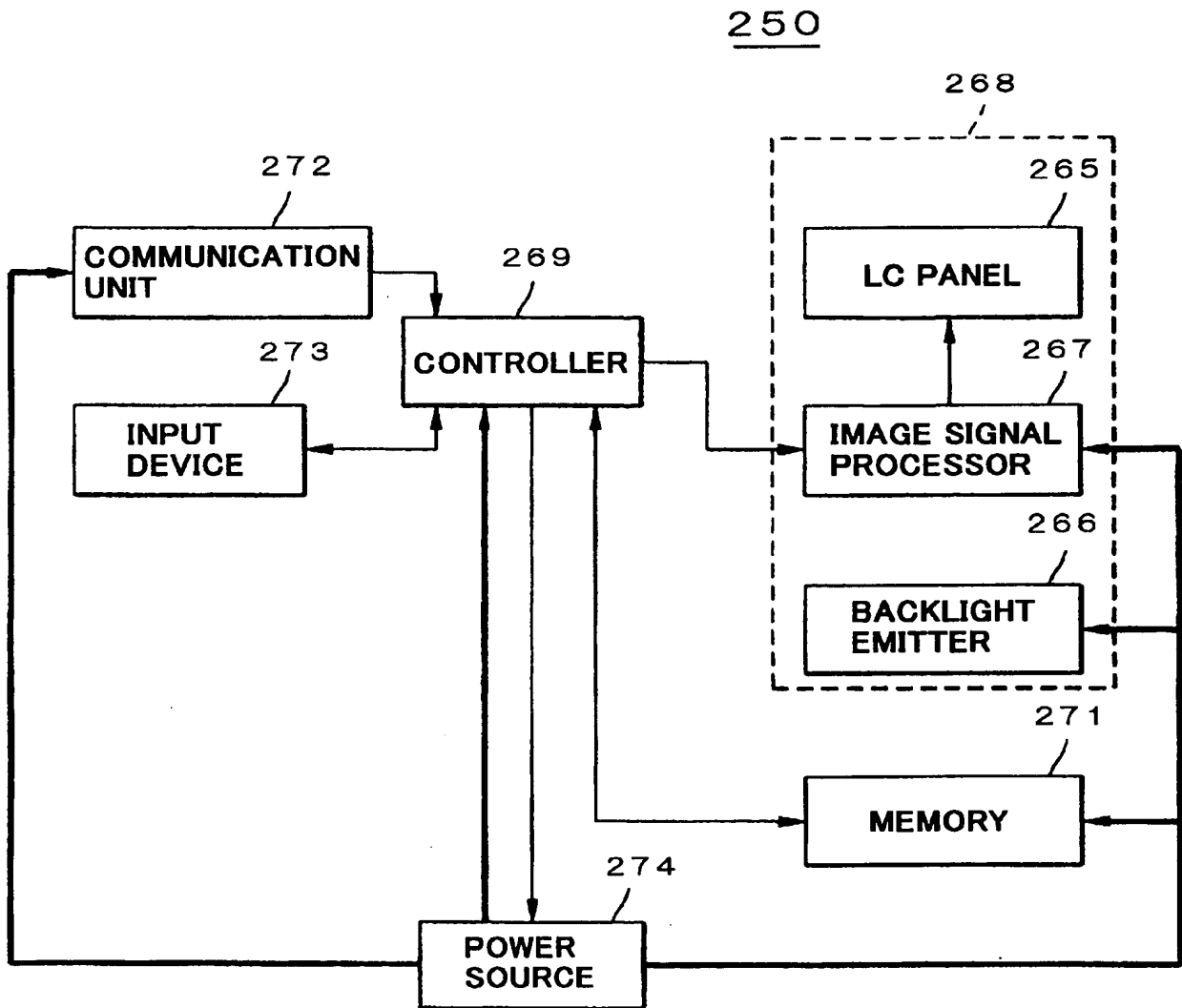


FIG.67

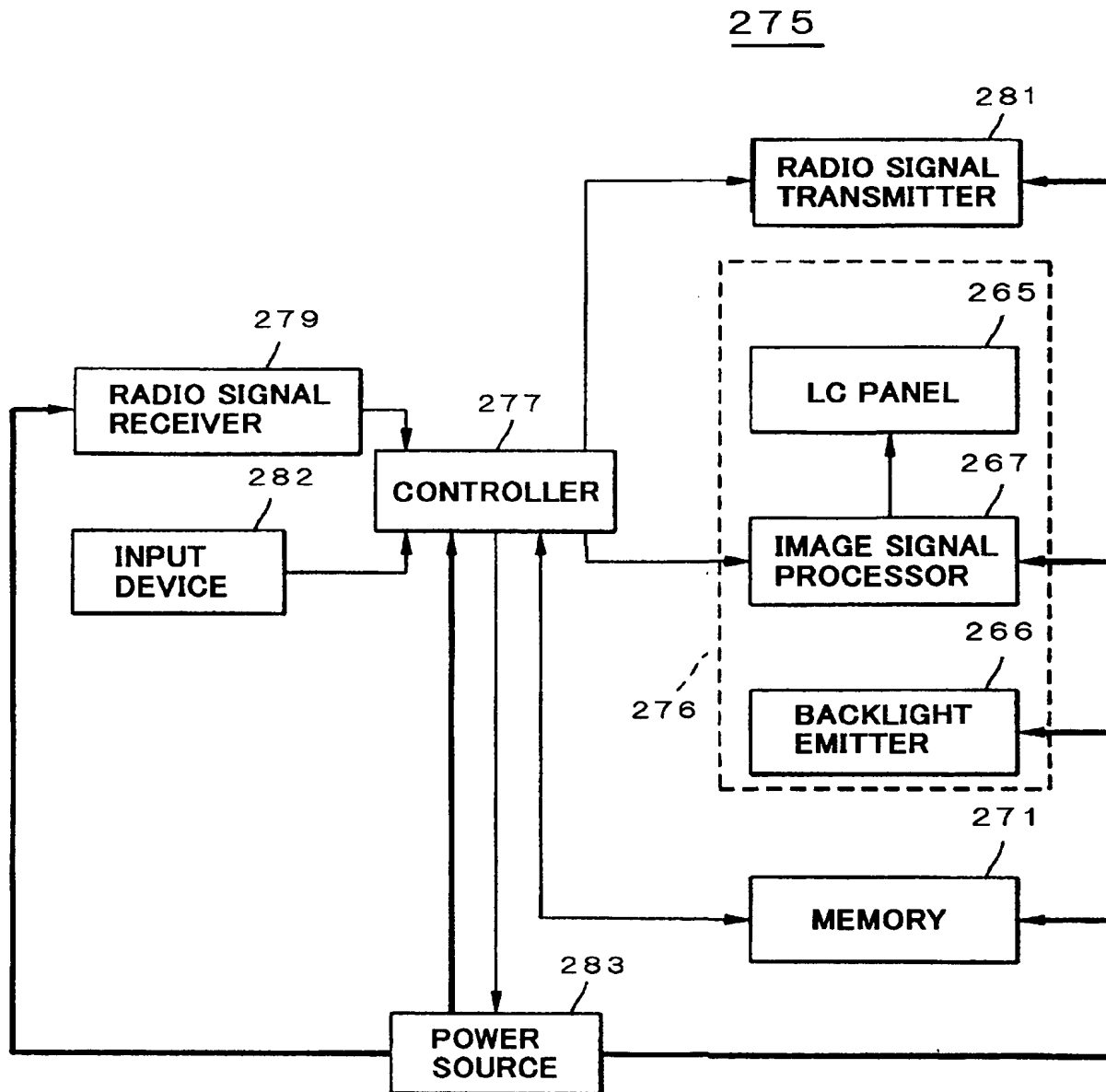


FIG. 65

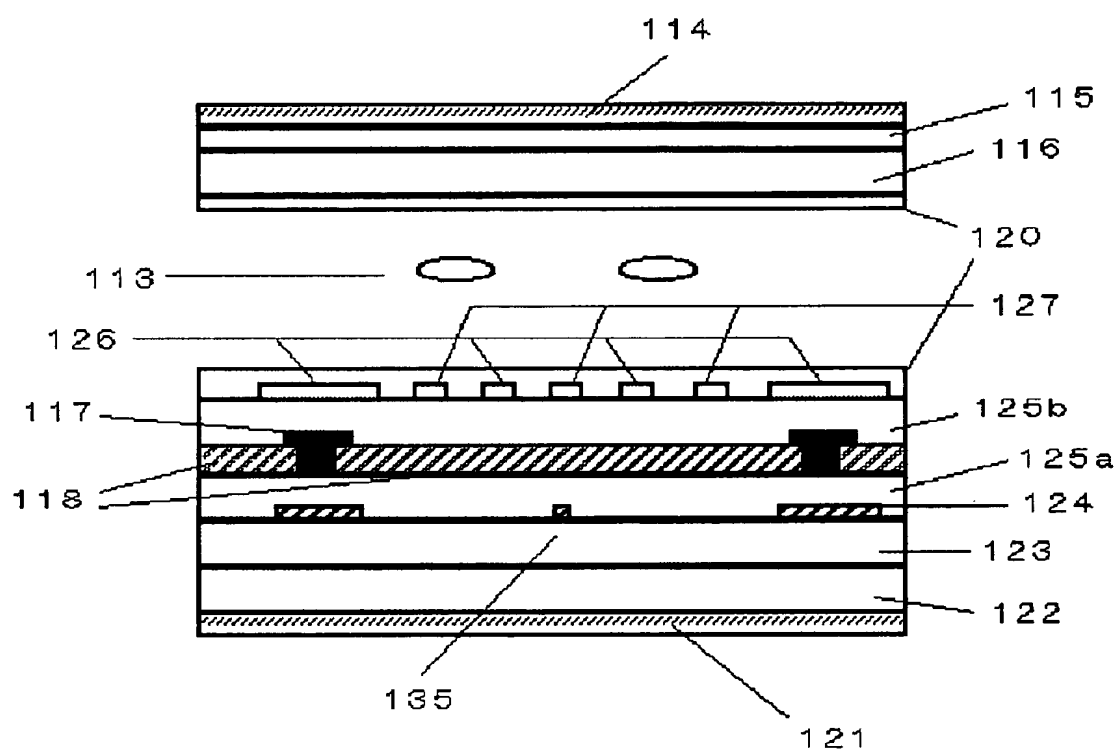


FIG.66

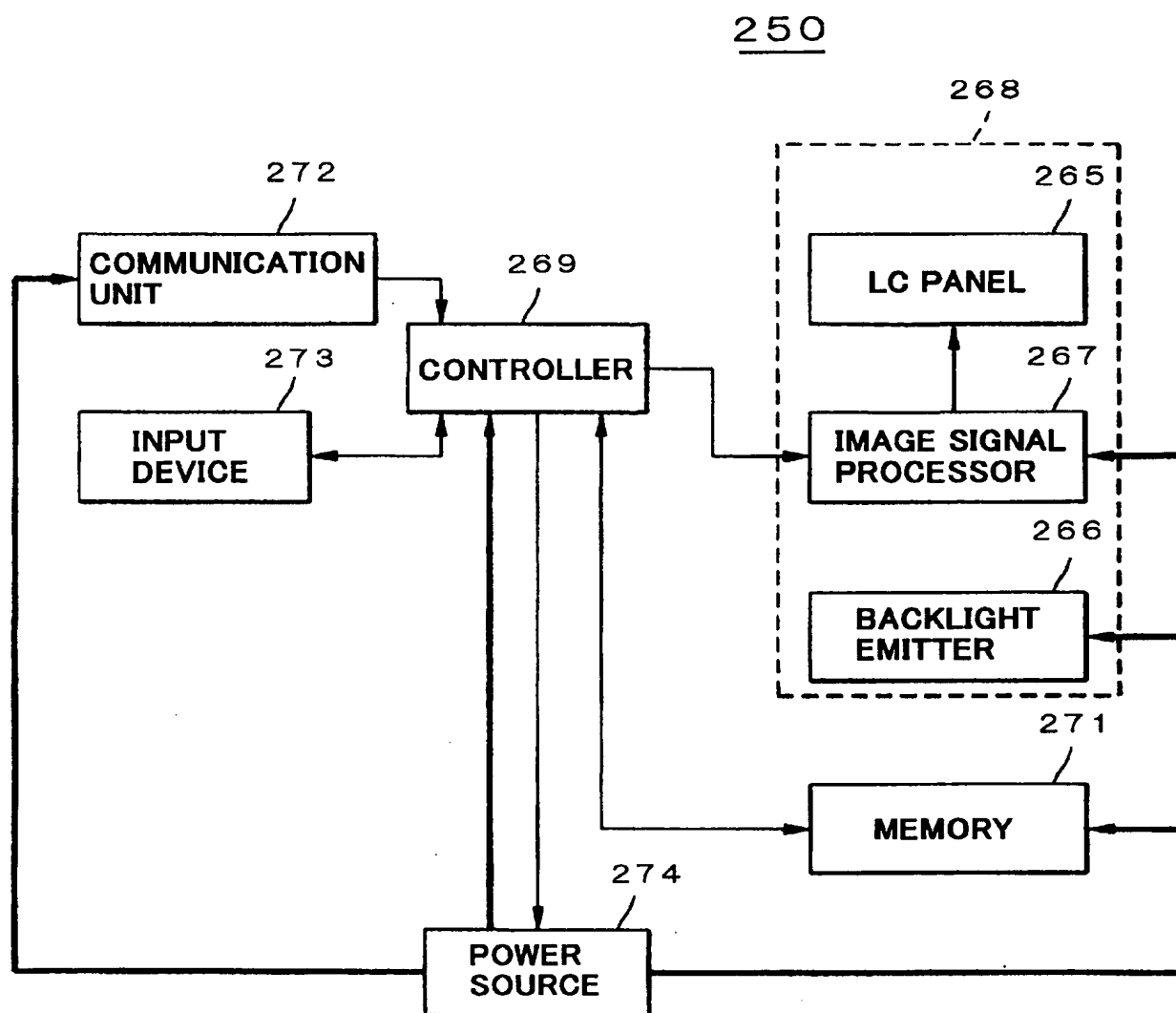


FIG.67

